TRANSPORTATION PLANNING

Central Business District Cordon Report 2004

MONITORING

THE CITY OF Edmonton TRANSPORTATION AND STREETS

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2004 Central Business District

Cordon Summary

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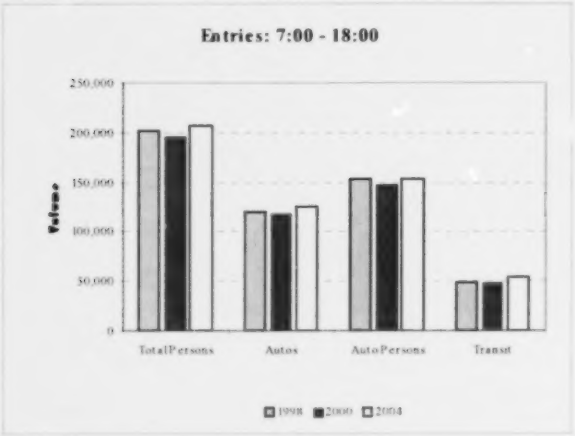
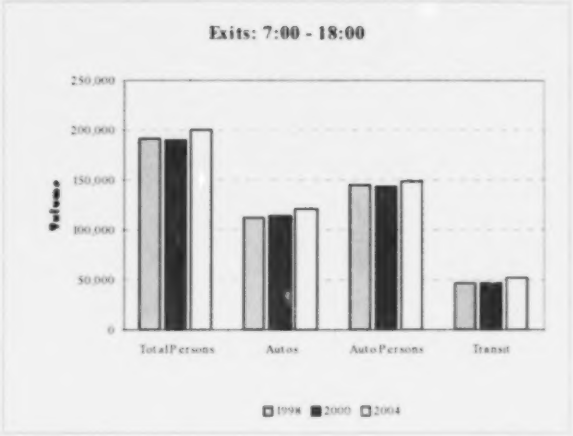
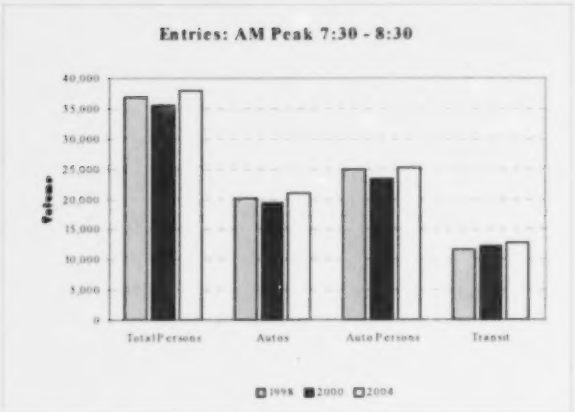
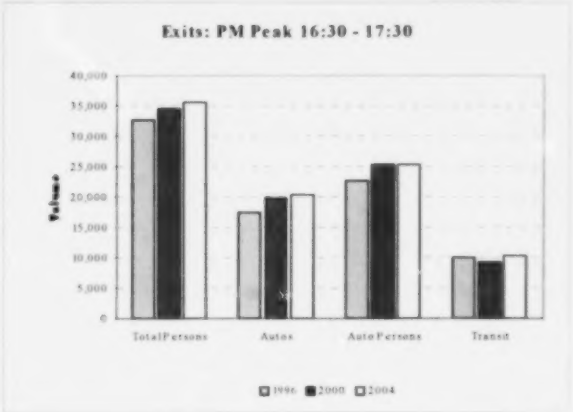
Central Business District Cordon: 2004 Comparison to 1998 and 2000

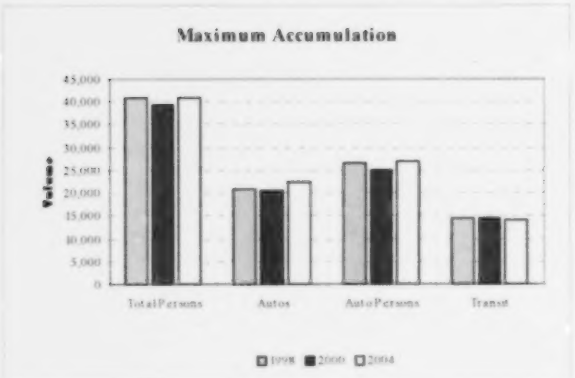
Highlights

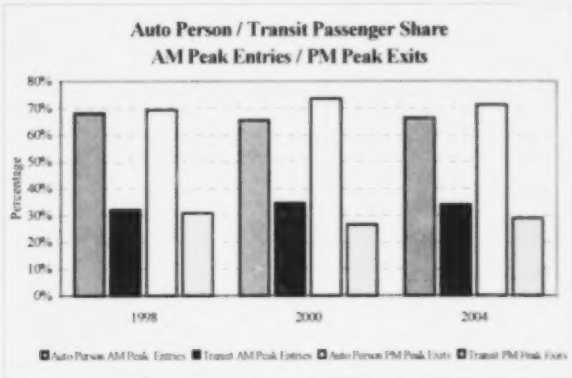












Central Business District Cordon: 2004 Comparison to 1998 and 2000

The Central Business District Cordon survey is conducted approximately every two years for the boundaries shown in Figure 1 and Figure 2. The survey was not completed in 2002. This summary reports information for 1998, 2000 and 2004.

In general, there are more people within the Central Business District cordon: Auto Persons and Transit Passengers both showed significant increases.

Total Daily Movements:

- TOTAL PERSON entries/exits increased by 20,100 (+5%) from 2000 to 2004.
- Combined entries / exits for AUTOS increased from 1998 (+14,000, +6%) and 2000 (+13,800, +6%).
- TRANSIT PASSENGERS increased from 1998 (+10,800, +10%) and 2000 (+9,700, +10%).
- The share of AUTO PERSONS for 2004 for daily and AM peak is continuing to decrease (from 76.1% in 1998 to 74.3% in 2004). However, the share in the PM Peak is continuing to increase (from 69.2% in 1998 to 71.1% in 2004).

Peak Hour Movements:

- In the AM Peak Hour TOTAL PERSON entries increased for both 2000 (+2,300, +7%) and 1998 (+1,100, +3%). PM Peak Exits also increased for both 2000 (+1,100, +3%) and 1998 (+2,800, +8%)
- TRANSIT PASSENGER SHARE for AM Peak Entries decreased slightly from 34.5% to 33.8% (2000 to 2004) while the PM Peak Exits increased significantly to 28.9% from 26.5%. The Transit Passenger share for 2004 is higher than 1998 for all time periods.
- AM Peak Entries for AUTO PERSONS increased (+1,800, +7.8%) from 2000 to 2004 but showed no change between 1998 and 2004. There was no change in PM Peak Exits for 2000 to 2004 but there was a significant increase from 1998 to 2004 (+2,600, +10%).
- AUTO entries increased in the AM Peak Hour for 2000 to 2004 (+1,600, +9%) but only showed minor increases from 1998 to 2004 (+730, +4%). PM Peak Hour Exits showed lower increases 2000 to 2004 (+500, +3%) than from 1998 to 2004 (+3,100, +15%).
- The pattern for TRANSIT is the same as for Autos. AM Peak Hour showed a small increase (+500, +4%) for 2000 to 2004 and a significant increase (+1,100, +8%) for 1998 to 2004. The PM Peak showed the significant increase 2000 to 2004 (+1,100, +13%) with minimal change reflected for 1998 to 2004 (+200, +2%).
- In the AM Peak Hour the share of AUTO PERSONS remained unchanged at 66% for 2004. The PM Peak share decreased from 74% to 71% (2000 to 2004) but increased from 1998's 72%.
- AUTO OCCUPANCY decreased for both the AM and PM Peak for all years. BUS OCCUPANCY decreased in the AM Peak (from 35 to 33) but increased on the PM Peak (From 30 to 32) in comparison to 2000. LRT OCCUPANCY (per train) increased in the AM and PM Peak hours for all years (138 and 169 – AM and PM Peak, respectively).

Methodology:

Auto, Truck and Other Bus data were collected between March 1 and March 10, 2004 from 07:00 to 18:00 hours. LRT data were collected in September 2003. Transit bus data were derived from data collected in November 2003. Although variations do exist in the timing of the data collection by mode, comparisons will be acceptable.

This survey is most useful for general observations of CBD activity and trends. As the changes measured become smaller or the data disaggregated the significance of the reported information decreases. The survey methodology and its limitations are outlined in Appendix A.

Changes: 1998 – 2000 –2004

There have been no significant changes within the CBD boundaries from 1998 to 2004 that would impact the information summarised. When using the data for comparisons, the limitations of the survey procedures should be reviewed to determine whether the changes identified are significant.

				1998 to 2004		2000 to 2004	
	1998	2000	2004	Change	% Change	Change	% Change
Total Persons							
Daily Entries / Exits	391,796	384,756	405,569	+ 13,863	+ 3.4%	+ 20,093	+ 5.4%
Daily Entries	201,257	195,485	206,100	+ 4,843	+ 2.3%	+ 10,615	+ 5.4%
Daily Exits	192,566	191,724	199,559	+ 9,020	+ 4.5%	+ 10,288	+ 5.4%
Maximum Accumulation	40,852	39,214	41,020	+ 168	+ 0.4%	+ 1,806	+ 4.6%
Accumulation at 10:00	38,774	37,771	38,193	- 551	- 1.4%	+ 422	+ 1.1%
AM Peak Entries	36,728	35,492	37,839	+ 1,111	+ 2.9%	+ 2,347	+ 6.6%
PM Peak Exits	33,810	34,431	35,555	+ 2,795	+ 7.9%	+ 1,124	+ 3.3%
Increased Daily movements combined with increases in maximum accumulation indicate more persons in the CBD.							
Autos							
Daily Entries / Exits	231,480	231,757	245,534	+ 14,054	+ 5.7%	+ 13,777	+ 5.9%
Daily Entries	119,739	117,936	124,709	+ 5,330	+ 4.3%	+ 6,773	+ 5.7%
Daily Exits	112,101	113,821	120,825	+ 8,724	+ 7.2%	+ 7,004	+ 6.2%
Maximum Accumulation	20,733	20,235	22,135	+ 1,402	+ 6.3%	+ 1,900	+ 9.4%
Accumulation at 10:00	19,782	19,795	20,502	+ 720	+ 3.5%	+ 707	+ 3.6%
AM Peak Entries	20,209	19,283	20,939	+ 730	+ 3.5%	+ 1,656	+ 8.6%
PM Peak Exits	18,505	19,830	20,373	+ 3,124	+ 15.3%	+ 543	+ 2.7%
Occupancy Daily	1.29	1.25	1.23				
Occupancy AM Peak Entries	1.24	1.21	1.20				
Occupancy PM Peak Exits	1.32	1.28	1.24				
Increased Entries and Exist combined with an increase in Maximum Accumulation indicates more Autos are travelling through and remaining within the CBD. There is a significantly larger increase in PM Peak exits as compared to AM Peak entries. When combined with the increase in PM Peak Auto Occupancy this suggests that alternate travel modes are used in the AM Peak. In increase in Maximum Accumulation and Accumulation at 10:00 indicates an increased number of autos remaining in the CBD boundaries.							

Central Business District Cordon: 2004 Comparison to 1998 and 2000

	1998	2000	2004	1998 to 2004 Change	1998 to 2004 % Change	2000 to 2004 Change	2000 to 2004 % Change
Auto Persons							
Daily Entries / Exits	298,168	290,025	301,217	+ 3,049	+ 1.0%	+ 11,192	+ 3.9%
Daily Entries	153,410	147,101	152,609	- 801	- 0.5%	+ 5,508	+ 3.7%
Daily Exits	144,758	142,924	148,608	+ 3,850	+ 2.6%	+ 5,684	+ 4.0%
Maximum Accumulation	26,620	25,101	26,983	+ 363	+ 1.3%	+ 1,882	+ 7.5%
Accumulation at 10:00	25,469	24,371	25,145	- 324	- 1.3%	+ 774	+ 3.2%
AM Peak Entries	25,018	23,264	25,067	+ 49	+ 0.2%	+ 1,803	+ 7.8%
PM Peak Exits	24,439	25,306	25,290	+ 2,616	+ 10.3%	- 16	- 0.1%
Auto Person Share							
Daily	76.1%	75.4%	74.3%				
AM Peak Entries	68.1%	65.5%	66.2%				
PM Peak Exits	72.3%	73.5%	71.1%				
Increases in Daily Entries/Exits and Maximum accumulation indicate more Auto Persons within the CBD.							
Transit Passengers							
Daily Entries / Exits	93,628	94,731	104,442	+ 10,814	+ 10.4%	+ 9,711	+ 10.3%
Daily Entries	47,847	48,384	53,491	+ 5,644	+ 10.6%	+ 5,107	+ 10.6%
Daily Exits	45,781	46,347	50,951	+ 5,170	+ 10.1%	+ 4,604	+ 9.9%
Maximum Accumulation	14,325	14,235	14,166	- 159	- 1.1%	- 69	- 0.5%
Accumulation at 10:00	13,275	13,400	13,048	- 227	- 1.7%	- 352	- 2.6%
AM Peak Entries	11,710	12,228	12,772	+ 1,062	+ 8.3%	+ 544	+ 4.4%
PM Peak Exits	9,371	9,125	10,265	+ 179	+ 1.7%	+ 1,140	+ 12.5%
Transit Passenger Share							
Daily	23.9%	24.6%	25.7%				
AM Peak Entries	31.9%	34.5%	33.8%				
PM Peak Exits	27.7%	26.5%	28.9%				
Occupancy – Bus							
Daily	24.1	23.1	24.6				
AM Peak Entries	33.1	35.3	33.0				
PM Peak Exits	29.2	29.7	32.0				
Occupancy – LRT							
Daily	77.5	84.2	102.0				
AM Peak Entries	112.9	112.4	137.7				
PM Peak Exits	140.5	147.7	168.6				
Increased Entries/Exits combined with lower accumulation indicates more through trips. The increase in LRT occupancy rates are driven by the combination of reduced frequency on the LRT and increased number of passengers.							

2004 Central Business District Cordon Summary

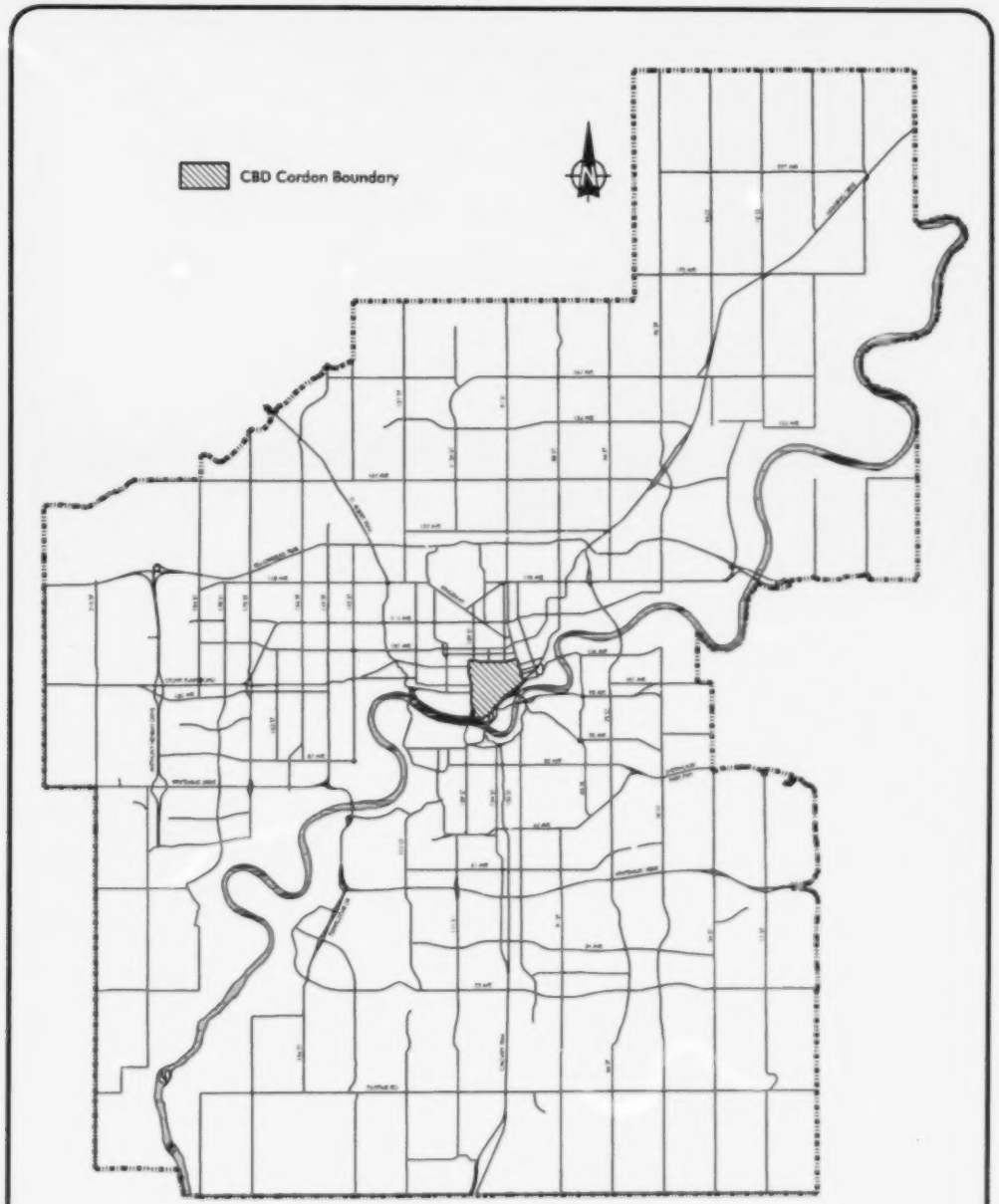


Figure 1: City of Edmonton - CBD Cordon Boundary

THE CITY OF Edmonton TRANSPORTATION AND STREETS

Central Business District Cordon: 2004 Summary

Survey Conditions

There were no survey or weather related problems during the survey time period. The Auto Persons numbers were adjusted to reflect the number of vehicles where the view of the passengers was obscured. As this adjustment accounted for only 0.2% of the Auto Persons there is no impact on the results reported.

In the 6-year period (1998 – 2004) covered by this summary there were minor transit and roadway network changes that may influence the results:

- August 1998 – The conversion of the one-way 102 Avenue / 102A Avenue to two-way changed the circulation patterns within the CBD. Summaries in 2000 indicated that people were skirting the CBD rather than making through trips. By 2004 it appears that traffic has returned to making through trips.
- July 1999 – Removal of the 101 Street underpass would have no impact on the boundaries although accessibility to the CBD was improved.
- September 2003 – Frequency changes occurred on the LRT: AM and PM Peak hour changed from 12 trains per hour to 10 trains per hour. This explains some of the increase in occupancy rate for LRT trains.

Data Collection

Auto, Truck, and Other Bus data were collected between March 1 and March 10, 2004 from 07:00 to 18:00 hours. LRT data were collected in September 2003. The Transit bus data were derived from data collected in November 2003. Although variations do exist in the timing of the data collection by mode, comparisons will be acceptable. Changes identified in this document may actually be greater or smaller than reported. The greatest error would be introduced when using less aggregated data (such as half-hour intervals) for comparisons.

As this summary is intended to give a general indication of trends these inconsistencies have a minor impact on the conclusions drawn. On the basis of the limitations described above, this survey is most useful in general observations of CBD activity and trends. The significance of the reported information decreases as the changes measured become smaller or the data are disaggregated.

Summary

Entries and exits indicate the number of trips to or from the CBD while the maximum accumulation shows how many people are remaining within the CBD boundary. By assessing the relationship between these two variables we can theorize about activity within the CBD. An increase in entries and exits with no change or minimal change in accumulation would indicate more through trips or trips of shorter duration. An increase in maximum accumulation and an increase in entries / exits would indicate that more people are attracted to the CBD. Conversely, a decrease in accumulation and entries / exits would imply fewer people in the CBD. These two indicators are influenced by variables such as economic climate, availability of employment, shopping and services or changes in parking.

The accumulation (Figures 3 to 5) shows similar patterns for all reporting periods (1998 to 2004) and all modes (Auto Persons, Transit Passengers, Autos). The accumulation peaks between 11:00 and 14:00 hours with a noticeable decrease between 12:00 and 12:30. This decrease is especially evident for Auto Persons and Autos as it is difficult to use Transit leaving the CBD for short duration trips. Accumulation at 10:00 shows little change indicating that there is very little change in the number of work trips to the CBD. The Transit Passenger Accumulation shows a decrease in accumulation 1998 to 2004 (-2%) and 2000 to 2004 (-3%).

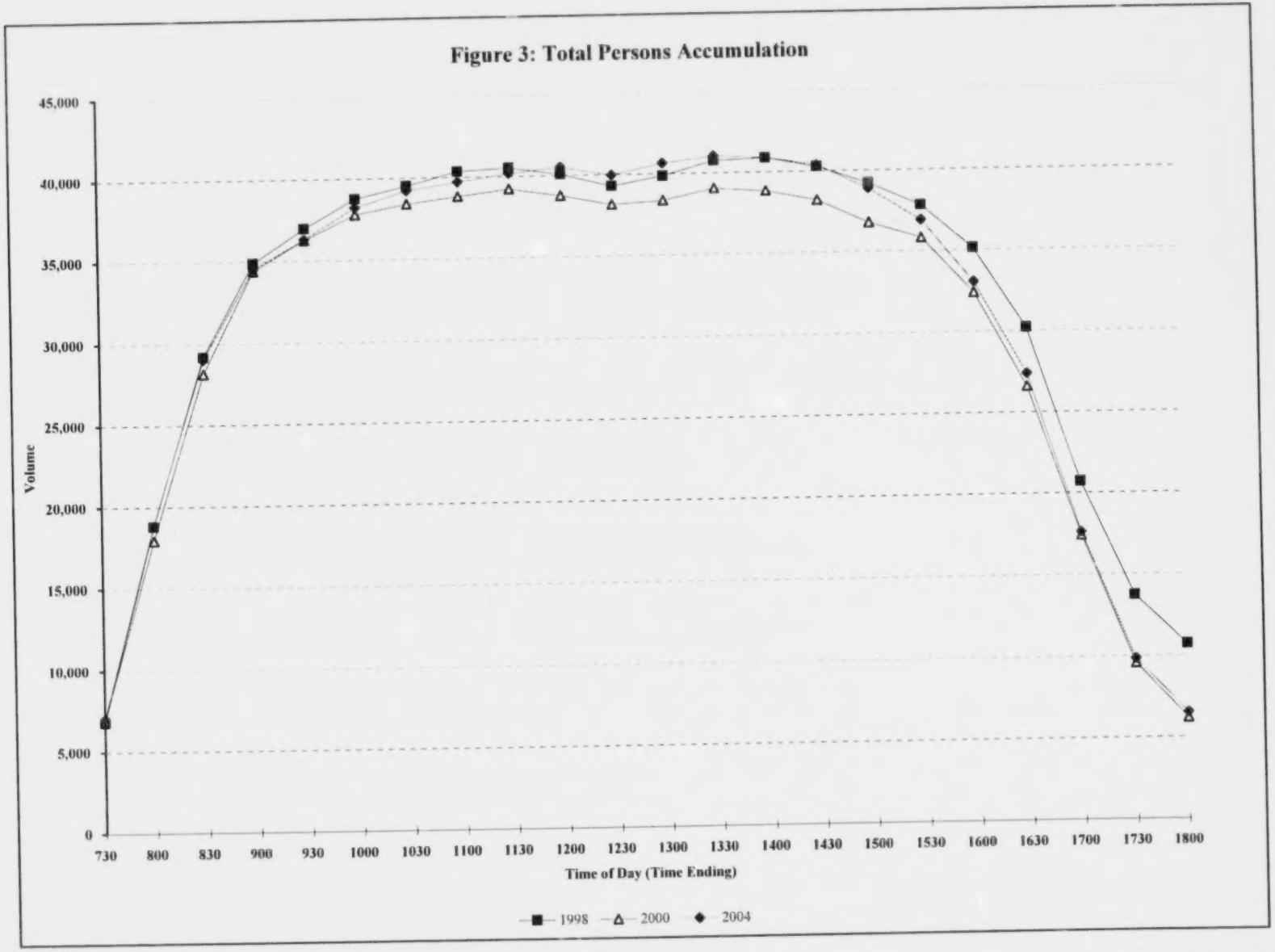
The time of day distribution for Auto / Transit trips is displayed in Figures 6 through 11. The entries / exit pattern is similar for all modes and all reporting periods. Entries peak in the AM from 07:30 to 08:30; exits peak from 16:30 to 17:30. Increased entries / exits are noticeable in the midday as people leave the CBD cordon. Again, this is most apparent for Auto Persons and Autos as can be seen from Figure 7 and Figure 8. Transit tends to have sharper peaks than Autos or Auto Persons although the time of day distributions are similar for all modes. The off-peak direction travel (exits in AM and entries in the PM) are flatter – likely influenced by post-secondary trips through the CBD. The increases in Total Persons, Auto Persons, and Transit Passengers can be seen from the graphs.

Table 4 presents the Mode Split for Auto and Transit trips. Daily transit trips have a 25.7% share of the market, up from 23.9% in 1998 and 24.6% in 2000. During the AM Peak Hours Transit captures a 33.8% (2004) share of the Total Person trips. The PM Peak hour (32.0%) is higher than the AM Peak indicating that transit passengers may be switching to Autos for the home trip. This is supported by the increase in auto occupancy in the PM peak (1.20 and 1.24 for AM and PM Peak Hour).

Increases in the Maximum Accumulation combined with increases in Total Persons imply that more people are making trips to the downtown. Auto Persons showed smaller increases (+4%) than Autos (+6%) and occupancy rates decreased indicating that the increases are mainly related Autos. Transit Passengers showed a significant increases in entries / xits. Maximum Accumulation and Accumulation at 10:00 and AM Peak Entries both decreased indicating that there are more Transit through trips or trips of shorter duration.

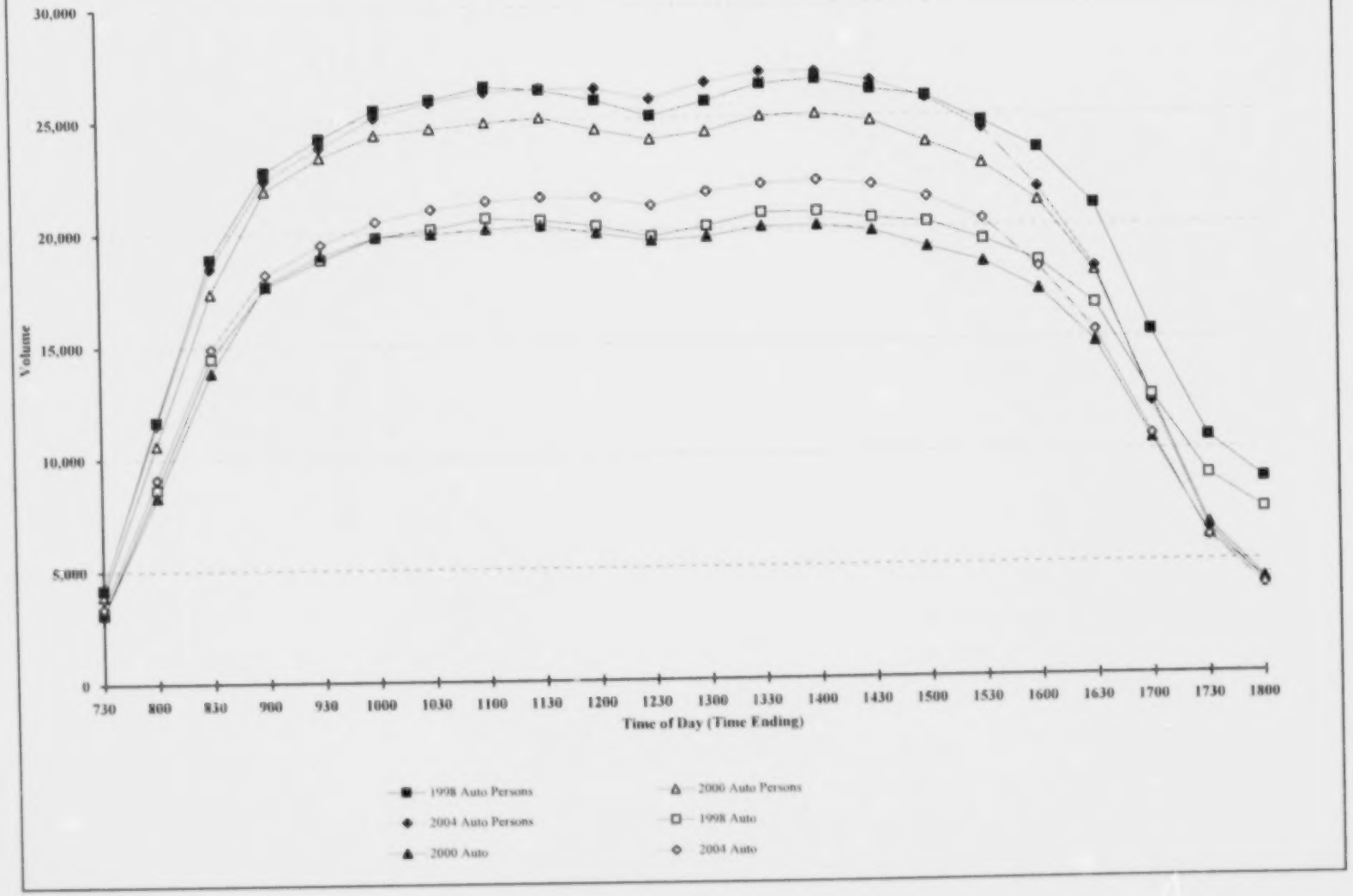
Central Business District Cordon: 2004 Summary

Figure 3: Total Persons Accumulation



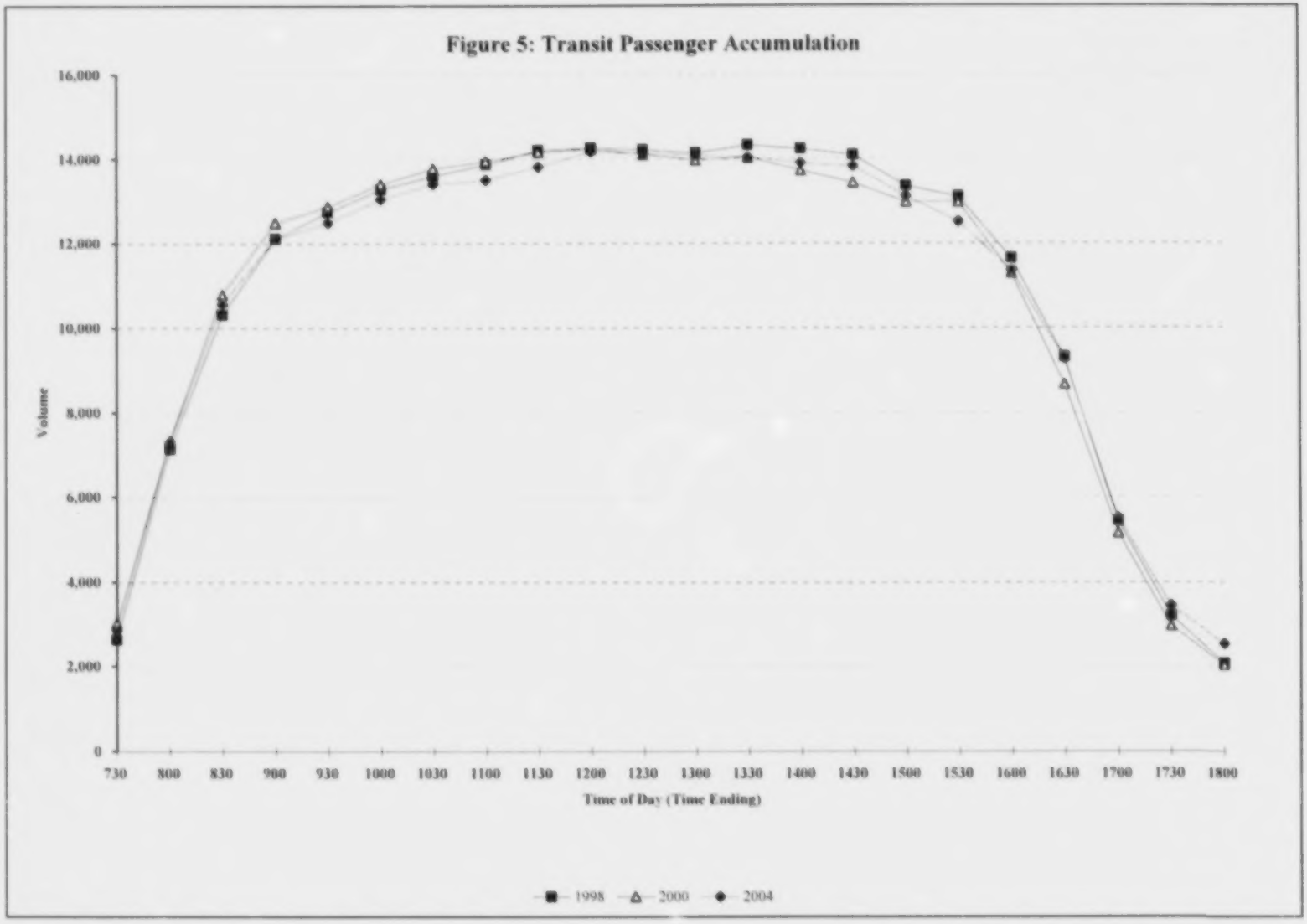
Central Business District Cordon: 2004 Summary

Figure 4: Auto and Auto Person Accumulation



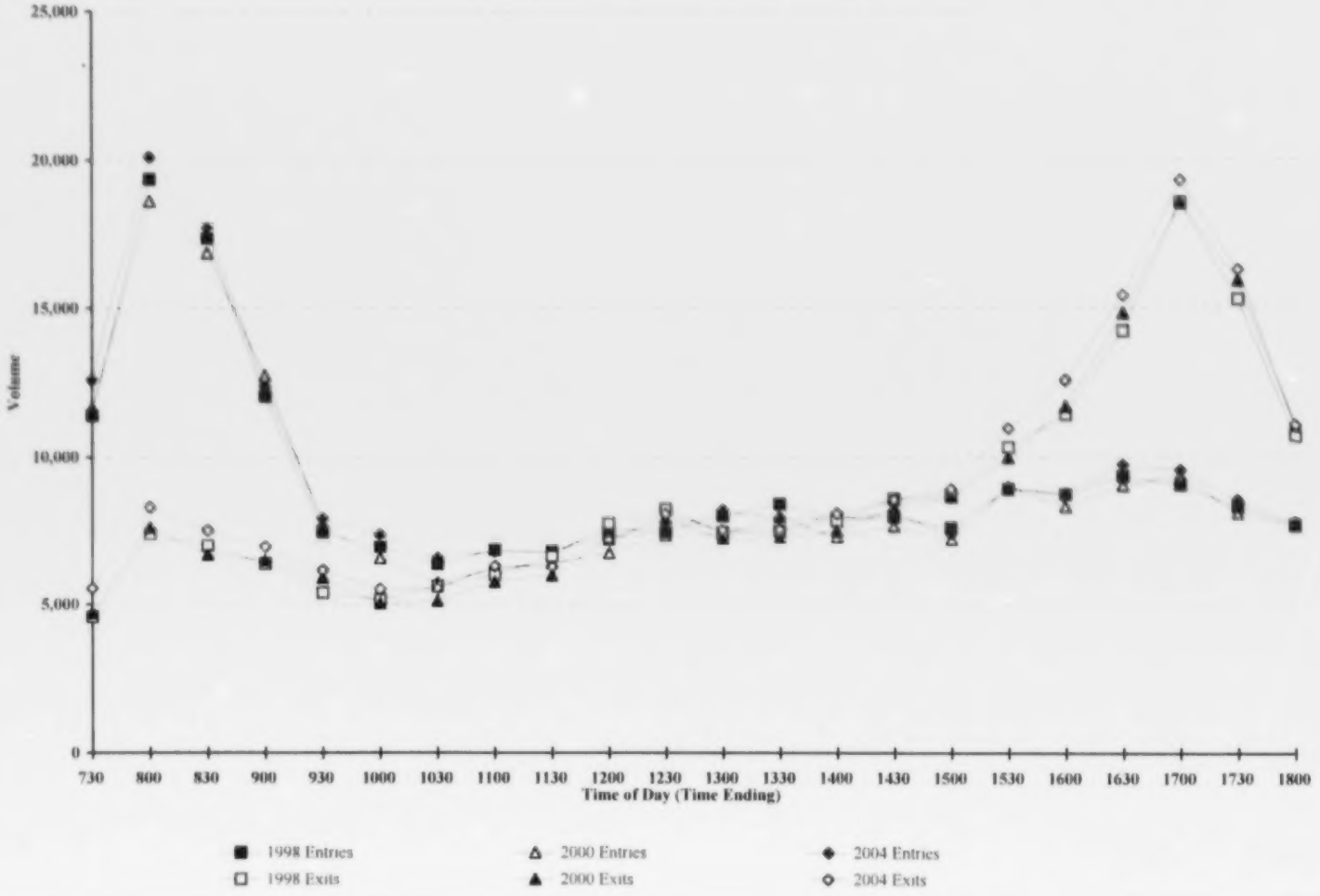
Central Business District Cordon: 2004 Summary

Figure 5: Transit Passenger Accumulation



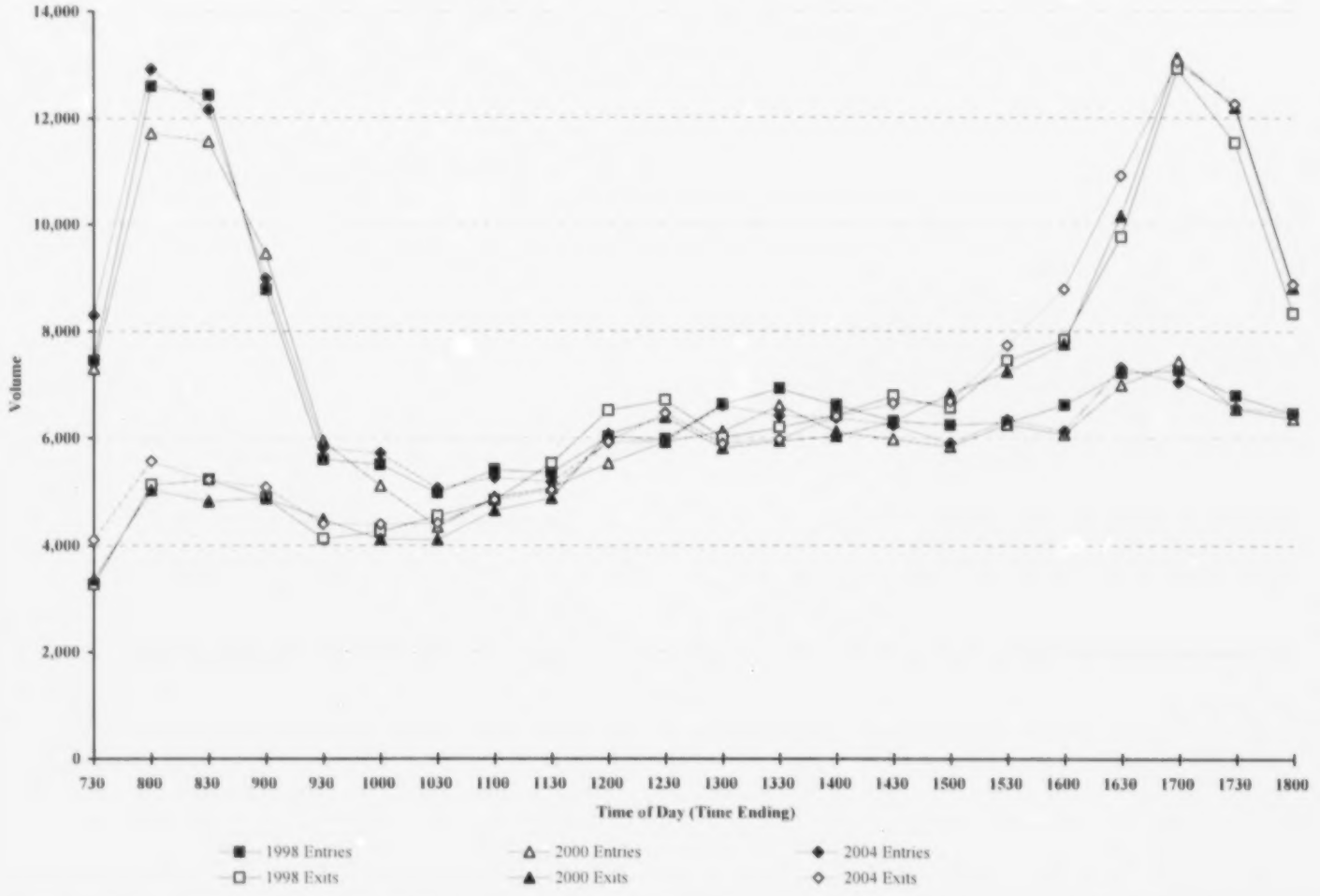
Central Business Disctrict Cordon: 2004 Summary

Figure 6: Total Person Entries and Exits



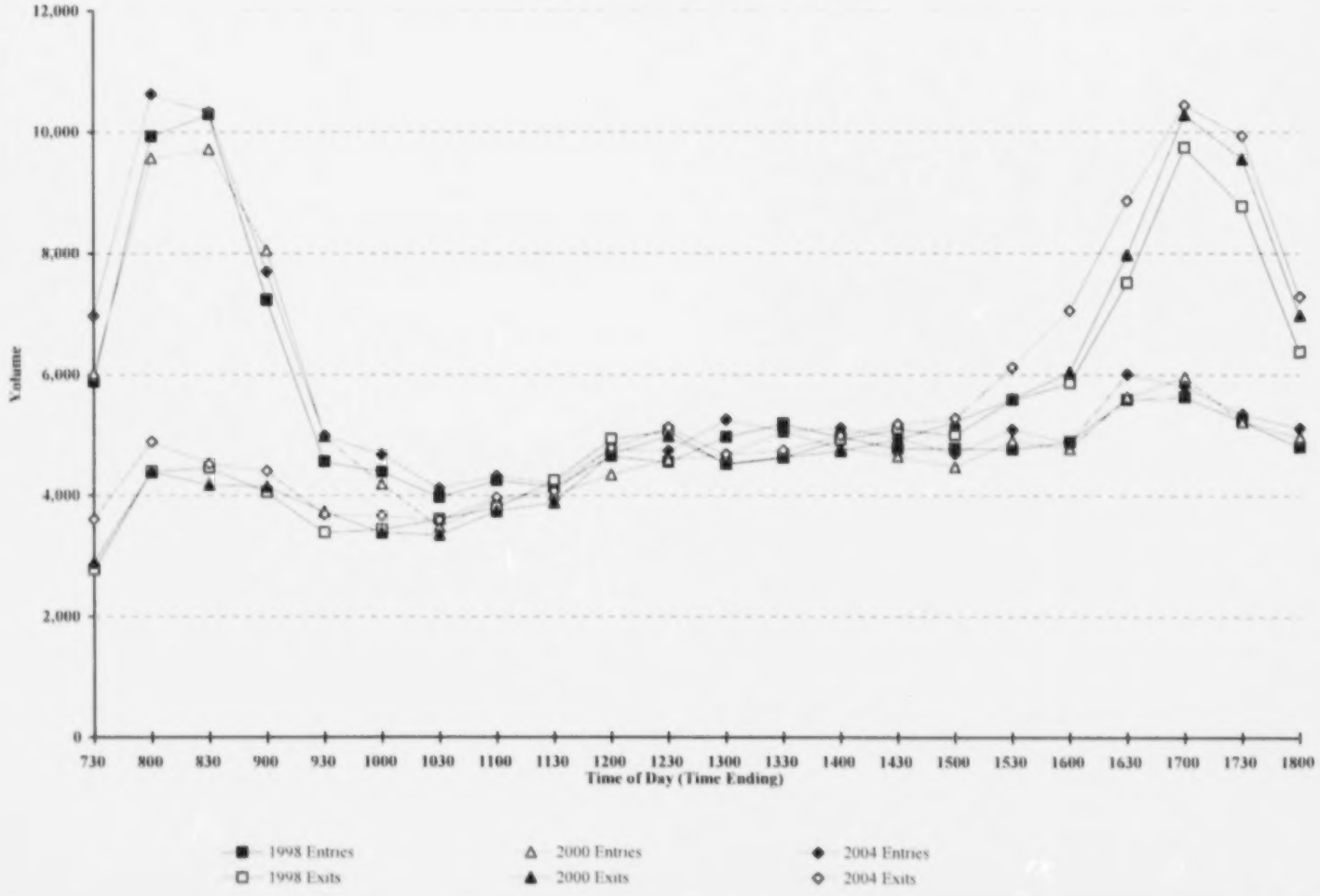
Central Business District Cordon: 2004 Summary

Figure 7: Auto Person Entries and Exits



Central Business District Cordon: 2004 Summary

Figure 8: Auto Entries and Exits



Central Business District Cordon: 2004 Summary

Figure 9: Transit Passenger Entries and Exits

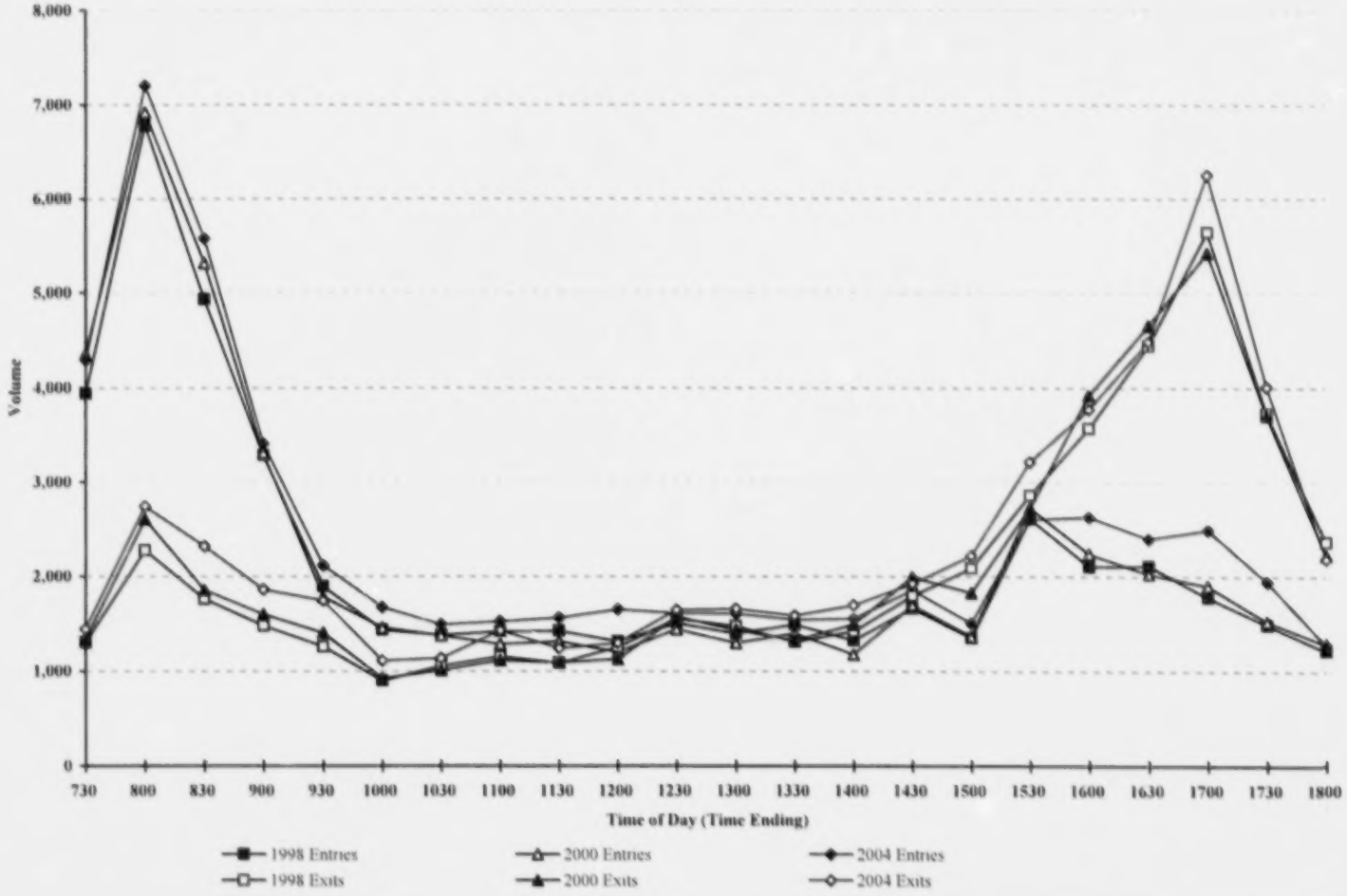


Figure 10: Bus Passenger Entries and Exits

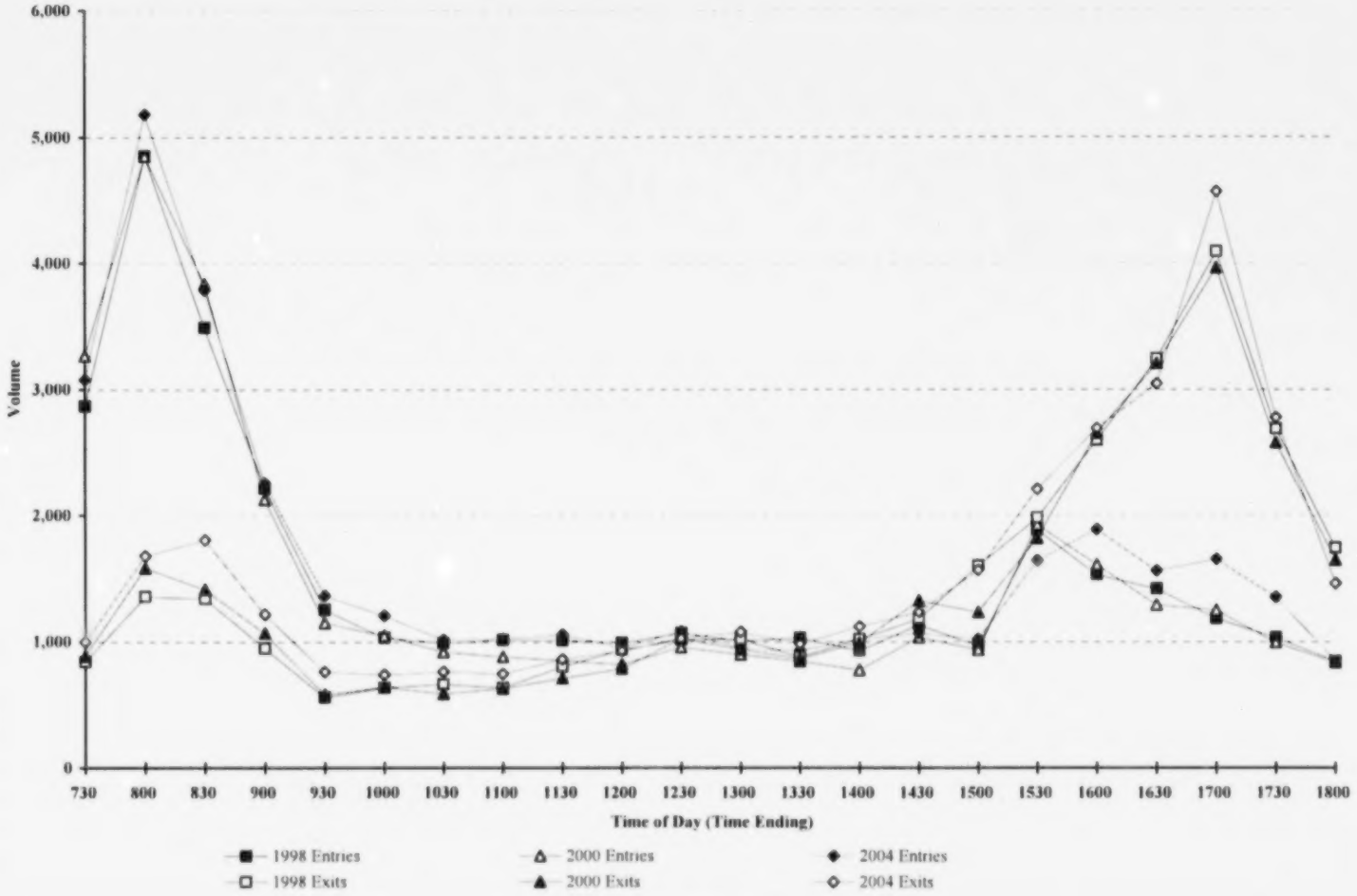
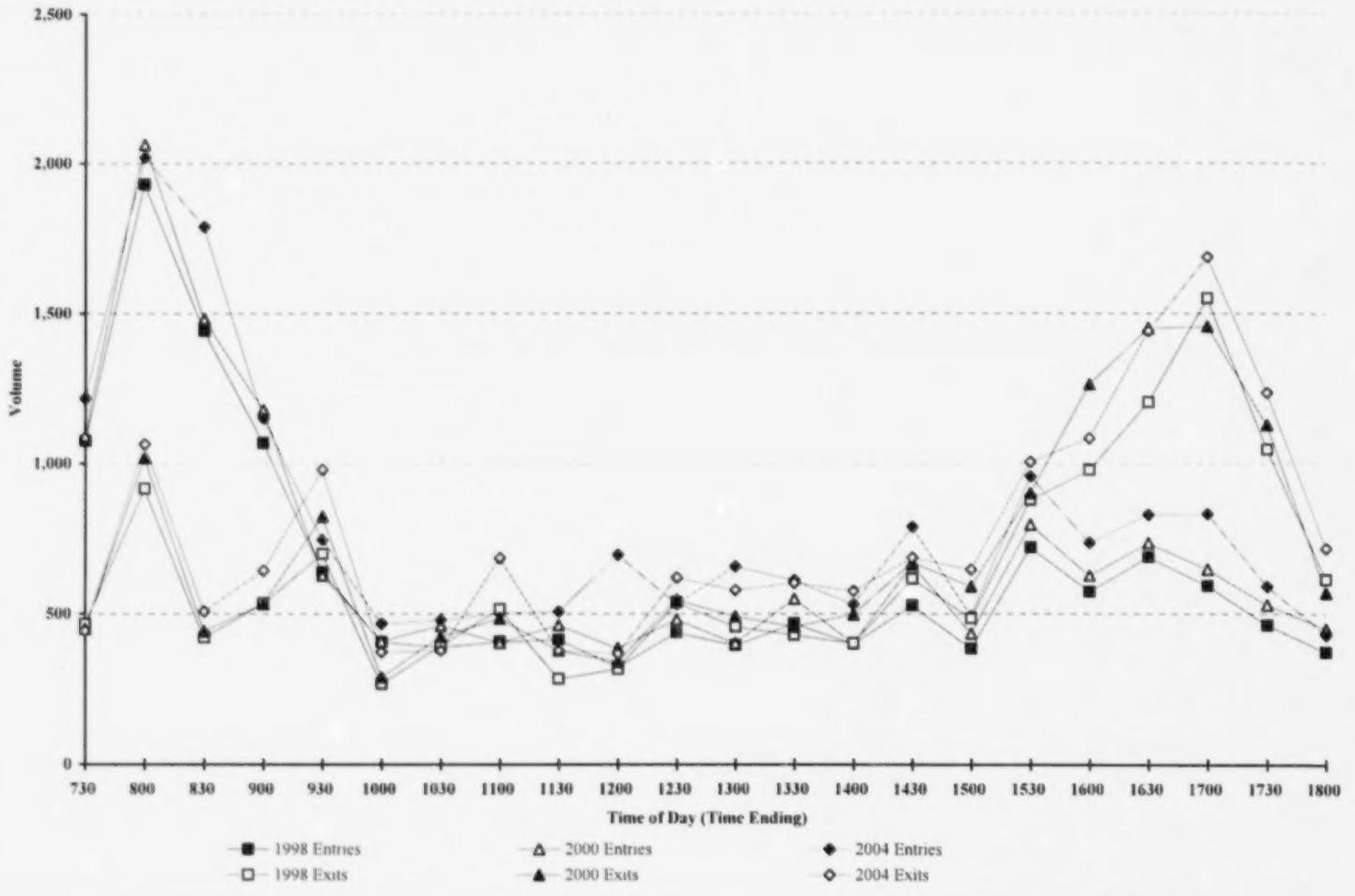


Figure 11: LRT Passenger Entries and Exits



Central Business District Cordon: 2004 Summary

Table 1: Total Cordon Person Entries by Mode

Time Ending	Auto			Truck			ETS Bus			LRT			ETS Total			Total			Total Auto/Transit		
	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004
730	7,459	7,298	8,307	59	83	66	2,864	3,265	3,076	1,076	1,093	1,218	3,940	4,358	4,294	11,458	11,739	12,667	11,399	11,656	12,601
800	12,587	11,712	12,916	66	81	85	4,850	4,851	5,180	1,930	2,063	2,020	6,780	6,914	7,200	19,433	18,707	20,201	19,367	18,626	20,116
830	12,431	11,552	12,151	105	113	109	3,489	3,833	3,784	1,441	1,481	1,788	4,930	5,314	5,572	17,466	16,979	17,832	17,361	16,866	17,723
900	8,773	9,455	8,993	121	129	119	2,214	2,126	2,255	1,069	1,178	1,151	3,283	3,304	3,406	12,177	12,888	12,518	12,056	12,759	12,399
930	5,595	5,941	5,820	120	134	144	1,255	1,151	1,367	638	629	746	1,893	1,780	2,113	7,608	7,855	8,077	7,488	7,721	7,933
1000	5,504	5,103	5,716	138	134	134	1,029	1,047	1,207	406	410	468	1,435	1,457	1,675	7,077	6,694	7,525	6,939	6,560	7,391
1030	4,978	4,344	5,058	116	186	127	991	918	1,013	389	460	480	1,380	1,378	1,493	6,474	5,908	6,678	6,358	5,722	6,551
1100	5,409	4,897	5,258	123	137	146	1,014	884	1,024	407	404	501	1,421	1,288	1,525	6,953	6,322	6,929	6,830	6,185	6,783
1130	5,349	5,070	5,178	126	132	140	1,010	854	1,056	415	462	507	1,425	1,316	1,563	6,900	6,518	6,881	6,774	6,386	6,741
1200	6,015	5,521	5,910	126	100	127	991	819	954	324	386	695	1,315	1,205	1,649	7,456	6,826	7,686	7,330	6,726	7,559
1230	5,972	5,918	5,942	94	113	113	1,070	958	1,079	439	482	532	1,509	1,440	1,611	7,575	7,471	7,666	7,481	7,358	7,553
1300	6,619	6,118	6,601	79	139	113	1,005	897	946	395	402	658	1,400	1,299	1,604	8,098	7,556	8,318	8,019	7,417	8,205
1330	6,922	6,600	6,411	116	158	118	1,025	845	930	468	550	611	1,493	1,395	1,541	8,531	8,153	8,070	8,415	7,995	7,952
1400	6,608	6,109	6,370	137	131	131	927	775	1,019	401	402	530	1,328	1,177	1,549	8,073	7,417	8,050	7,936	7,286	7,919
1430	6,313	5,966	6,238	148	153	127	1,132	1,035	1,066	527	662	790	1,659	1,697	1,856	8,120	7,816	8,221	7,972	7,663	8,094
1500	6,242	5,832	5,890	82	122	129	966	935	1,017	386	435	493	1,352	1,370	1,510	7,676	7,324	7,529	7,594	7,202	7,400
1530	6,287	6,250	6,339	116	91	117	1,886	1,926	1,642	721	797	958	2,607	2,723	2,600	9,010	9,064	9,056	8,894	8,973	8,939
1600	6,614	6,070	6,124	112	79	79	1,528	1,610	1,889	574	626	737	2,102	2,236	2,626	8,828	8,385	8,829	8,716	8,306	8,750
1630	7,220	6,990	7,323	69	80	71	1,420	1,290	1,564	689	734	831	2,109	2,024	2,395	9,398	9,094	9,789	9,329	9,014	9,718
1700	7,261	7,440	7,040	66	48	62	1,184	1,251	1,655	592	648	833	1,776	1,899	2,488	9,103	9,387	9,590	9,037	9,339	9,528
1730	6,791	6,549	6,563	46	68	47	1,030	994	1,351	462	529	591	1,492	1,523	1,942	8,329	8,140	8,552	8,283	8,072	8,505
1800	6,461	6,366	6,462	39	45	42	844	836	850	374	451	429	1,218	1,287	1,279	7,718	7,698	7,783	7,679	7,653	7,741
Total	**153,410**	**147,101**	**152,609**	**2,204**	**2,456**	**2,346**	**33,724**	**33,100**	**35,924**	**14,123**	**15,284**	**17,567**	**47,847**	**48,384**	**53,491**	**203,461**	**197,941**	**208,446**	**201,257**	**195,485**	**206,100**

Total Cordon Person Exits by Mode

Time Ending	Auto			Truck			ETS Bus			LRT			ETS Total			Total			Total Auto/Transit		
	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004
730	3,263	3,367	4,098	60	57	69	840	888	996	466	451	444	1,306	1,339	1,440	4,629	4,763	5,607	4,569	4,706	5,538
800	5,130	5,030	5,572	62	55	96	1,357	1,584	1,677	916	1,019	1,065	2,273	2,603	2,742	7,465	7,688	8,410	7,403	7,633	8,314
830	5,224	4,818	5,222	79	76	90	1,342	1,414	1,806	421	441	508	1,763	1,855	2,314	7,066	6,749	7,626	6,987	6,673	7,536
900	4,886	4,881	5,080	102	109	148	947	1,066	1,217	534	533	643	1,481	1,599	1,860	6,469	6,589	7,088	6,367	6,480	6,940
930	4,122	4,485	4,400	126	135	142	562	581	764	698	823	980	1,260	1,404	1,744	5,508	6,024	6,286	5,382	5,889	6,144
1000	4,255	4,109	4,386	119	138	102	636	638	738	267	289	374	903	927	1,112	5,277	5,174	5,600	5,158	5,036	5,498
1030	4,545	4,103	4,409	150	134	153	663	588	761	394	425	379	1,057	1,013	1,140	5,752	5,250	5,702	5,602	5,116	5,549
1100	4,839	4,646	4,849	124	117	160	637	631	748	516	485	685	1,153	1,116	1,433	6,116	5,879	6,442	5,992	5,762	6,282
1130	5,521	4,879	5,030	108	136	163	806	714	863	285	379	379	1,091	1,093	1,242	6,720	6,108	6,435	6,612	5,972	6,272
1200	6,507	6,064	5,919	106	135	132	938	789	929	317	341	368	1,255	1,130	1,297	7,868	7,329	7,348	7,762	7,194	7,216
1230	6,701	6,385	6,454	94	130	118	1,014	1,024	1,026	538	547	620	1,552	1,571	1,646	8,347	8,086	8,218	8,253	7,956	8,100
1300	5,994	5,804	5,887	106	124	107	1,018	942	1,075	458	492	579	1,476	1,434	1,654	7,576	7,362	7,648	7,470	7,238	7,541
1330	6,195	5,943	5,971	106	134	119	880	868	982	429	458	603	1,309	1,326	1,585	7,610	7,403	7,675	7,504	7,269	7,556
1400	6,419	6,023	6,397	85	159	141	1,019	992	1,116	402	498	576	1,421	1,490	1,692	7,925	7,672	8,230	7,840	7,513	8,089
1430	6,781	6,292	6,644	121	153	127	1,180	1,322	1,234	616	671	687	1,796	1,993	1,921	8,698	8,438	8,692	8,577	8,285	8,565
1500	6,555	6,822	6,684	95	134	135	1,600	1,233	1,568	485	591	648	2,085	1,824	2,216	8,735	8,780	9,035	8,640	8,646	8,900
1530	7,449	7,238	7,733	86	126	125	1,979	1,818	2,207	879	900	1,005	2,858	2,718	3,212	10,393	10,082	11,070	10,307	9,956	10,945
1600	7,835	7,759	8,788	82	110	85	2,592	2,652	2,689	978	1,264	1,084	3,570	3,916	3,773	11,487	11,785	12,646	11,405	11,675	12,561
1630	9,764	10,156	10,917	64	106	103	3,241	3,203	3,042	1,204	1,450	1,442	4,445	4,653	4,484	14,273	14,915	15,504	14,209	14,809	15,401
1700	12,910	13,115	13,043	58	64	70	4,092	3,962	4,566	1,549	1,457	1,686	5,641	5,419	6,252	18,609	18,598	19,365	18,551	18,534	19,295
1730	11,529	12,191	12,247	52	70	57	2,683	2,577	2,776	1,047	1,129	1,237	3,730	3,706	4,013	15,311	15,967	16,317	15,259	15,897	16,260
1800	8,334	8,814	8,879	42	51	45	1,743	1,648	1,462	613	570	717	2,356	2,218	2,179	10,732	11,083	11,103	10,690	11,032	11,058
Total	**144,758**	**142,924**	**148,608**	**2,027**	**2,453**	**2,487**	**31,769**	**31,134**	**34,242**	**14,012**	**15,213**	**16,709**	**45,781**	**46,347**	**50,951**	**192,566**	**191,724**	**202,046**	**190,539**	**189,271**	**199,559**

Central Business District Cordon: 2004 Summary

Table 2: Total Cordon Vehicles Entries by Mode

Time Ending	Auto			Truck			ETS Bus			LRT			ETS Total			Other Bus			Total		
	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004
730	5,881	6,019	6,969	46	65	59	112	110	104	12	12	10	124	122	114	15	8	18	6,066	6,214	7,160
800	9,920	9,569	10,621	54	65	70	134	130	140	12	12	10	146	142	150	16	17	22	10,136	9,793	10,863
830	10,289	9,714	10,318	79	100	94	118	116	113	12	12	10	130	128	123	18	22	23	10,516	9,964	10,558
900	7,231	8,054	7,692	92	106	101	89	83	82	10	10	10	99	93	92	25	23	18	7,447	8,276	7,903
930	4,561	4,980	4,987	89	107	114	52	51	56	6	6	6	58	57	62	31	29	25	4,739	5,173	5,188
1000	4,392	4,183	4,676	107	106	104	41	45	48	6	6	6	47	51	54	17	14	22	4,563	4,354	4,856
1030	3,970	3,480	4,114	97	138	106	40	43	46	6	6	6	46	49	52	12	18	19	4,125	3,685	4,291
1100	4,243	3,923	4,321	90	111	116	39	43	44	6	6	6	45	49	50	11	16	18	4,389	4,099	4,505
1130	4,140	4,009	4,203	100	107	109	40	45	46	6	6	6	46	51	52	16	20	17	4,302	4,187	4,381
1200	4,646	4,347	4,768	99	87	101	39	42	45	6	6	6	45	48	51	21	19	32	4,811	4,501	4,952
1230	4,551	4,589	4,732	78	89	88	40	47	50	6	6	6	46	53	56	24	17	24	4,699	4,748	4,900
1300	4,960	4,671	5,253	68	117	78	39	45	46	6	6	6	45	51	52	18	35	40	5,091	4,874	5,423
1330	5,178	5,053	5,063	91	124	94	40	46	48	6	6	6	46	52	54	15	17	19	5,330	5,246	5,230
1400	4,958	4,783	5,112	104	105	102	41	48	45	6	6	6	47	54	51	15	17	23	5,124	4,959	5,288
1430	4,780	4,646	4,950	109	113	110	46	50	52	6	6	6	52	56	58	16	16	28	4,957	4,831	5,146
1500	4,779	4,473	4,696	60	92	104	47	54	52	6	6	6	53	60	58	15	28	29	4,907	4,653	4,887
1530	4,762	4,902	5,088	91	77	99	67	71	73	11	11	10	78	82	83	13	27	29	4,944	5,088	5,299
1600	4,882	4,778	4,870	87	65	61	65	66	75	12	12	10	77	78	85	15	17	19	5,061	4,938	5,035
1630	5,590	5,626	6,011	57	70	57	66	68	72	12	12	10	78	80	82	14	22	20	5,739	5,798	6,170
1700	5,628	5,958	5,806	52	40	53	74	73	69	12	12	10	86	85	79	15	11	17	5,781	6,094	5,955
1730	5,234	5,220	5,346	34	51	36	66	65	66	10	10	9	76	75	75	14	17	9	5,358	5,363	5,466
1800	4,804	4,959	5,113	31	37	37	56	53	52	6	6	7	62	59	59	14	10	10	4,911	5,065	5,219
Total	**119,379**	**117,936**	**124,709**	**1,715**	**1,972**	**1,893**	**1,351**	**1,394**	**1,424**	**181**	**181**	**168**	**1,532**	**1,575**	**1,592**	**370**	**420**	**481**	**122,996**	**121,903**	**128,675**

Total Cordon Vehicle Exits by Mode

Time Ending	Auto			Truck			ETS Bus			LRT			ETS Total			Other Bus			Total		
	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004
730	2,767	2,893	3,601	47	48	60	61	62	63	12	11	10	73	73	73	4	6	13	2,891	3,020	3,747
800	4,397	4,385	4,887	50	46	75	76	74	73	12	12	10	88	86	83	17	13	25	4,552	4,530	5,070
830	4,459	4,181	4,524	68	64	65	70	66	72	12	12	10	82	78	82	26	17	25	4,635	4,340	4,696
900	4,050	4,146	4,404	86	85	119	57	52	58	11	11	10	68	63	68	21	16	22	4,225	4,310	4,613
930	3,382	3,732	3,684	96	113	114	46	49	51	6	6	7	52	55	58	18	22	29	3,548	3,922	3,885
1000	3,437	3,387	3,661	90	107	83	41	42	46	6	6	6	47	48	52	24	14	24	3,598	3,556	3,820
1030	3,606	3,347	3,589	117	115	120	38	44	44	6	6	6	44	50	50	13	6	17	3,780	3,518	3,776
1100	3,797	3,740	3,965	99	93	121	41	42	45	6	6	6	47	48	51	14	8	23	3,957	3,889	4,160
1130	4,244	3,885	4,066	89	100	127	38	45	44	6	6	6	44	51	50	12	20	20	4,389	4,056	4,263
1200	4,931	4,685	4,785	85	100	106	41	44	47	6	6	6	47	50	53	20	11	21	5,083	4,846	4,965
1230	5,062	4,979	5,123	79	107	102	39	47	48	6	6	6	45	53	54	27	15	28	5,213	5,154	5,307
1300	4,514	4,527	4,673	77	99	92	42	45	47	6	6	6	48	51	53	15	23	15	4,654	4,700	4,833
1330	4,621	4,629	4,743	83	99	98	39	48	46	6	6	6	45	54	52	18	16	23	4,767	4,798	4,916
1400	4,920	4,730	4,989	70	114	107	43	46	50	6	6	6	49	52	56	12	18	19	5,051	4,914	5,171
1430	5,101	4,927	5,173	99	120	100	41	51	51	6	6	6	47	57	57	22	24	22	5,269	5,128	5,352
1500	4,995	5,218	5,274	73	108	112	57	59	60	6	6	6	63	65	66	12	17	27	5,143	5,408	5,479
1530	5,578	5,596	6,118	66	98	98	78	78	79	10	10	9	88	88	88	16	19	26	5,748	5,801	6,330
1600	5,856	6,046	7,054	69	85	74	96	94	93	12	12	10	108	106	103	19	14	19	6,052	6,251	7,250
1630	7,510	7,975	8,858	53	83	79	107	109	108	12	12	10	119	121	118	14	14	23	7,696	8,193	9,078
1700	9,739	10,279	10,442	42	54	51	127	123	134	12	12	10	139	135	144	15	14	14	9,935	10,482	10,651
1730	8,766	9,551	9,931	38	58	42	105	97	95	11	11	10	116	108	105	9	17	10	8,929	9,734	10,088
1800	6,369	6,983	7,281	34	38	40	79	74	69	6	6	6	85	80	75	14	6	13	6,502	7,107	7,409
Total	**112,101**	**113,821**	**120,825**	**1,610**	**1,934**	**1,985**	**1,362**	**1,391**	**1,423**	**182**	**181**	**168**	**1,544**	**1,572**	**1,591**	**362**	**330**	**458**	**115,617**	**117,657**	**124,859**

Central Business District Cordon: 2004 Summary

Table 3: Accumulations

Time Ending	Total Persons			Auto Persons			ETS Total Passenger			Auto Only		
	1998	2000	2004	1998	2000	2004	1998	2000	2004	1998	2000	2004
730	6,830	6,950	7,063	4,196	3,931	4,209	2,634	3,019	2,854	3,114	3,126	3,368
800	18,794	17,943	18,866	11,653	10,613	11,554	7,141	7,330	7,312	8,637	8,310	9,102
830	29,168	28,136	29,053	18,860	17,347	18,483	10,308	10,789	10,570	14,467	13,843	14,896
900	34,857	34,415	34,511	22,747	21,921	22,395	12,110	12,494	12,116	17,648	17,751	18,184
930	36,963	36,247	36,301	24,220	23,377	23,816	12,743	12,870	12,485	18,827	18,999	19,487
1000	38,744	37,771	38,193	25,469	24,371	25,145	13,275	13,400	13,048	19,782	19,795	20,502
1030	39,500	38,377	39,195	25,902	24,612	25,794	13,598	13,765	13,401	20,146	19,928	21,027
1100	40,338	38,800	39,696	26,472	24,863	26,203	13,866	13,937	13,493	20,592	20,111	21,383
1130	40,500	39,214	40,165	26,300	25,054	26,351	14,200	14,160	13,814	20,488	20,235	21,520
1200	40,068	38,746	40,508	25,808	24,511	26,342	14,260	14,235	14,166	20,203	19,897	21,503
1230	39,296	38,148	39,961	25,079	24,044	25,830	14,217	14,104	14,131	19,692	19,507	21,112
1300	39,845	38,327	40,625	25,704	24,358	26,544	14,141	13,969	14,081	20,138	19,651	21,692
1330	40,756	39,053	41,020	26,431	25,015	26,983	14,325	14,038	14,037	20,695	20,075	22,012
1400	40,852	38,826	40,850	26,620	25,101	26,956	14,232	13,725	13,894	20,733	20,128	22,135
1430	40,247	38,204	40,379	26,152	24,775	26,550	14,095	13,429	13,829	20,412	19,847	21,912
1500	39,201	36,760	38,880	25,839	23,785	25,757	13,362	12,975	13,123	20,196	19,102	21,334
1530	37,788	35,777	36,873	24,677	22,797	24,362	13,111	12,980	12,511	19,380	18,408	20,304
1600	35,099	32,408	33,062	23,456	21,108	21,698	11,643	11,300	11,364	18,406	17,140	18,120
1630	30,219	26,613	27,379	20,912	17,942	18,104	9,307	8,671	9,275	16,486	14,791	15,273
1700	20,705	17,418	17,612	15,263	12,267	12,101	5,442	5,151	5,511	12,375	10,470	10,637
1730	13,729	9,593	9,858	10,525	6,625	6,418	3,204	2,968	3,440	8,843	6,139	6,052
1800	10,718	6,214	6,541	8,652	4,177	4,001	2,066	2,037	2,540	7,278	4,115	3,884
Maximum	**40,852**	**39,214**	**41,020**	**26,620**	**25,101**	**26,983**	**14,325**	**14,235**	**14,166**	**20,733**	**20,235**	**22,135**
Interval End	1400	1400	1130	1400	1400	1400	1300	1330	1200	1130	1400	1130
Accumulation at 1000	38,744	37,771	38,193	25,469	24,371	25,145	13,275	13,400	13,048	19,782	19,795	20,502

Appendix A

Methodology and Definitions

Appendix A

Figure 2: Survey Locations

Survey Methodology

The Central Business District (CBD) Cordon survey has been conducted approximately every two years to measure traffic volume and transit passengers and to assess the distribution of trips between Autos and Transit. The boundaries (Figure 1 and Figure 2) for the 2000 cordon survey were:

North – 105 Avenue;
East – 97 Street;
South – 96 Avenue; and
West – 109 Street.

The location of each station and listing of stations surveyed in 2000 are included with the detailed station summaries in Appendix B.

All vehicles that cross the cordon are assigned to categories: Autos, Trucks, ETS bus (including Sherwood Park and St Albert), and Other Buses (includes all other buses such as DATS, Red Arrow, Greyhound, etc.). Passengers are recorded for all modes except Other Buses as these vehicles tend to have shaded windows making accurate counting difficult. Bicycle and pedestrian trips are not included as these modes are not restricted to traffic corridors.

Accumulation summaries are derived from entries minus exits by time interval. The summary really reports the change in accumulation after 7:00 AM as the survey methodology does not include accumulation within the CBD prior to the survey start time. Also, CBD residents exiting the CBD cordon contribute to a reduction in the accumulation. Movements associated with peripheral parking also affect conclusions drawn from the accumulation totals. An Auto trip from the south side may enter the cordon on the south boundary, exit on the east boundary, park just outside the cordon and Auto Persons walk in. This survey would suggest a through trip with no increase in Auto or Auto Driver accumulation.

The AM and PM Peak Hours are selected based on the maximum Total Persons (Auto Persons and Transit). The AM Peak hour is the one-hour interval between 07:00 and 09:00 with the highest entries. The highest exits for the one-hour interval between 15:00 and 18:00 determines the PM Peak. When comparing the activity for the AM Peak and PM Peak hours recognize that the composition of the AM Peak trips includes both school and work trips while the PM Peak trips are more oriented to work trips. This factor helps to explain the difference between the AM and PM Peak volumes. There may also be different travel patterns (routing or mode) in the AM and PM Peaks.

Definitions

Accumulation	– The number of people entering the cordon after 7:00 AM by Auto or Transit minus the number of people exiting the cordon after 7:00 AM by Auto or Transit. Note: this is nor a true picture of the people in the CBD because: a) People enter the cordon before 7:00 AM b) People use other modes (walk, bicycle, walk from car) c) Exiting CBD residents are included as a reduction in accumulation.
Autos	– All passenger vehicles: cars, vans and ½ ton trucks
Daily	– 07:00 to 18:00.
ETS	– Edmonton Transit – includes buses, LRT and, for this survey, Sherwood Park and St. Albert service.
Mode Split	– The share of Total Person movements allocated on the basis of Auto or Transit travel mode only. Trucks are excluded.
Other Bus	– Includes any commercial passenger vehicle carriers such as Greyhound and Red Arrow; also includes special shuttle services such as the Edmonton International Airport shuttles.
Peak Hour	– The highest one-hour volume in the peak direction in the peak period selected on Total Persons.
Peak Period	– AM – 07:00 to 09:00; PM – 15:30 to 17:30
Persons	– All occupants in a vehicle (Autos, Trucks, and ETS buses and LRT) – includes driver for Autos and Trucks, excludes driver for Transit. Note: walking and bicycle trips are excluded.
Total Persons	– Refers to persons in private passenger vehicles (Autos) and Transit passengers only. Does not include truck drivers or truck passengers.
Trucks	– Any vehicle with dual rear wheel (minimum 6 tires for all axles) used for the movement of goods or the provision of services.
Trip	– One-way movement, either an exit or an entry to the cordon. Auto trips would refer to the vehicle movement; Auto Person trip refers to the movement of the persons in the vehicle. The trip may originate / end in the CBD or be a through movement.
Vehicles	– All motor vehicles including Autos, Trucks, Buses. LRT trains.

Appendix B

2004 Cordon Detail

Central Business District Cordon: 2004 Summary

Cordon Stations Surveyed

Location		Survey Date Vehicle		Transit		Page
1. McDougall Hill	S of MacDonald Drive	Mar. 9, 2004	Tue	Nov. 26, 2003	Wed	2
2. 99 Avenue	E of Bellamy Hill	Mar. 8, 2004	Mon			3
3. Bellamy Hill	S of 98 Avenue	Mar. 9, 2004	Tue	Nov. 26, 2003	Wed	4
4. 97 Avenue	W of 104 Street	Mar. 8, 2004	Mon	Nov. 26, 2003	Wed	5
6. 96 Avenue	at 105 Street	Mar. 9, 2004	Tue	Nov. 26, 2003	Wed	6
7. Fortway Drive	W of High Level Bridge	Mar. 8, 2004	Mon			7
8. 109 Street	S of 97 Avenue	Mar. 4, 2004	Thu	Nov. 26, 2003	Wed	8
9. 99 Avenue	E of 110 Street	Mar. 3, 2004	Wed			9
10. 100 Avenue	E of 110 Street	Mar. 8, 2004	Mon			10
11. Jasper Avenue	E of 110 Street	Mar. 4, 2004	Thu	Nov. 26, 2003	Wed	11
12. 104 Avenue	E of 111 Street	Mar. 3, 2004	Wed	Nov. 26, 2003	Wed	12
13. 109 Street	S of 105 Avenue	Mar. 3, 2004	Wed	Nov. 26, 2003	Wed	13
14. 105 Street	S of 105 Avenue	Mar. 4, 2004	Thu	Nov. 26, 2003	Wed	14
15. 101 Street	S of 105 Avenue	Mar. 2, 2004	Tue	Nov. 26, 2003	Wed	15
16. 97 Street	S of 105 Avenue	Mar. 2, 2004	Tue	Nov. 26, 2003	Wed	16
17. 103A Avenue	E of 97 Street	Mar. 1, 2004	Mon			17
18. 103 Avenue	E of 97 Street	Mar. 2, 2004	Tue			18
19. 102A Avenue	E of 97 Street	Mar. 1, 2004	Mon	Nov. 26, 2003	Wed	19
20. 102 Avenue	E of 97 Street	Mar. 1, 2004	Mon	Nov. 26, 2003	Wed	20
21. 101A Avenue	E of 97 Street	Mar. 2, 2004	Tue			21
22. Jasper Avenue	E of 97 Street	Mar. 1, 2004	Mon	Nov. 26, 2003	Wed	22
23. LRT	N of Churchill Stn			Sep. 22, 2003	Mon	23
24. LRT	S of Grandin Stn			Sep. 24, 2003	Wed	24
25. 106 Street	N of River Valley Rd	Mar. 9, 2004	Tue			25
26. 108 Street	S of 105 Avenue	Mar. 10, 2004	Wed			26
27. 107A Street	S of 105 Avenue	Mar. 10, 2004	Wed			27
28. 107 Street	S of 105 Avenue	Mar. 10, 2004	Wed			28
29. 106 Street	S of 105 Avenue	Mar. 10, 2004	Wed			29
31. 103 Avenue	E of 110 Street	Mar. 3, 2004	Wed			30

Total Downtown Cordon Area by Time of Day 31

Total Downtown Cordon Area by Station 32

AM Peak Hour by Station 34

PM Peak Hour by Station 36

Vehicle Occupancy Rates by Time of Day 38

Central Business District Cordon: 2004 Report

1. McDougall Hill S of MacDonald Drive

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	563	3	28	1	595	271	5	17	1	294
800	834	3	45	0	882	294	3	18	1	316
830	769	6	32	1	808	262	6	15	2	285
900	565	9	22	3	599	233	3	9	1	246
930	351	6	15	2	374	212	3	8	4	227
1000	304	0	12	1	317	226	2	9	2	239
1030	263	7	11	5	286	281	7	8	1	297
1100	238	10	10	1	259	236	5	10	1	252
1130	229	7	10	0	246	233	5	8	1	247
1200	280	5	9	2	296	276	3	10	1	290
1230	263	5	10	0	278	251	4	9	3	267
1300	303	5	9	5	322	274	5	10	0	289
1330	259	4	10	1	274	325	5	9	1	340
1400	255	8	7	2	272	311	5	11	3	330
1430	239	3	12	1	255	371	4	10	2	387
1500	278	4	9	1	292	363	6	15	0	384
1530	280	5	14	4	303	543	7	17	0	567
1600	288	4	16	3	311	605	4	22	0	631
1630	350	3	16	0	369	723	3	25	1	752
1700	276	2	18	1	297	1,025	5	36	1	1,067
1730	368	4	16	2	390	989	4	21	0	1,014
1800	353	6	12	1	372	602	1	17	0	620
TOTAL	7,908	109	343	37	8,397	8,906	95	314	26	9,341

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	649	3	783	1,435	306	6	306	618
800	934	3	1,564	2,501	329	4	375	708
830	847	6	1,245	2,098	309	7	208	524
900	616	11	573	1,200	267	4	165	436
930	389	6	301	696	267	4	116	387
1000	367	0	325	692	278	2	102	382
1030	316	8	235	559	352	7	139	498
1100	270	11	192	473	289	5	137	431
1130	264	7	214	485	304	7	178	489
1200	333	6	176	515	358	3	169	530
1230	295	5	238	538	303	5	117	425
1300	343	5	169	517	343	8	227	578
1330	290	6	174	470	416	6	191	613
1400	299	9	201	509	389	8	274	671
1430	278	3	195	476	480	4	236	720
1500	346	6	187	539	480	9	370	859
1530	323	5	375	703	723	10	504	1,237
1600	334	5	348	687	767	4	658	1,429
1630	391	3	368	762	910	4	687	1,601
1700	299	2	377	678	1,287	7	1,245	2,539
1730	396	4	392	792	1,212	4	564	1,780
1800	396	7	247	650	750	1	405	1,156
TOTAL	8,975	121	8,879	17,975	11,119	119	7,373	18,611

Central Business District Cordon: 2004 Report

2. 99 Avenue E of Bellamy Hill

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	122	0		0	122					
800	204	2		1	207					
830	203	2		0	205					
900	164	3		0	167					
930	49	1		0	50					
1000	41	1		1	43					
1030	31	0		0	31					
1100	45	0		1	46					
1130	36	1		1	38					
1200	40	2		0	42					
1230	24	1		0	25					
1300	46	1		0	47					
1330	45	0		0	45					
1400	29	1		0	30					
1430	44	2		0	46					
1500	19	0		0	19					
1530	44	0		0	44					
1600	59	1		0	60					
1630	51	1		0	52					
1700	55	0		1	56					
1730	51	1		0	52					
1800	43	2		0	45					
TOTAL	1,445	22		5	1,472					

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	140	0		140				
800	263	2		265				
830	244	2		246				
900	185	3		188				
930	53	2		55				
1000	51	1		52				
1030	39	0		39				
1100	57	0		57				
1130	53	1		54				
1200	47	2		49				
1230	25	2		27				
1300	55	1		56				
1330	57	0		57				
1400	32	1		33				
1430	59	3		62				
1500	21	0		21				
1530	57	0		57				
1600	70	1		71				
1630	63	1		64				
1700	59	0		59				
1730	56	1		57				
1800	55	2		57				
TOTAL	1,741	25		1,766				

Central Business District Cordon: 2004 Report

3. Bellamy Hill S of 98 Avenue

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	599	5	13	1	618	177	4	2	0	183
800	861	0	18	2	881	238	4	1	1	244
830	826	2	12	1	841	232	2	1	3	238
900	535	6	8	1	550	198	6	1	1	206
930	309	2	6	1	318	165	5	1	2	173
1000	255	5	5	0	265	167	4	1	1	173
1030	194	4	5	0	203	183	8	1	1	193
1100	212	2	5	1	220	219	12	1	1	233
1130	172	4	5	0	181	212	7	1	1	221
1200	242	5	5	0	252	245	9	1	1	256
1230	179	2	5	2	188	256	8	1	1	266
1300	222	0	5	3	230	245	3	1	0	249
1330	251	1	5	1	258	272	7	1	1	281
1400	236	4	5	1	246	247	4	1	1	253
1430	200	4	5	3	212	265	5	1	2	273
1500	207	2	5	2	216	321	8	1	2	332
1530	173	3	7	0	183	367	4	2	1	374
1600	205	1	7	1	214	461	3	4	1	469
1630	205	1	7	0	213	698	2	6	2	708
1700	228	1	8	1	238	723	3	9	0	735
1730	230	1	8	1	240	692	5	4	1	702
1800	195	2	8	0	205	550	2	2	1	555
TOTAL	6,736	57	157	22	6,972	7,133	115	44	25	7,317

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	705	6	414	1,125	192	4	17	213
800	1,046	0	687	1,733	274	4	8	286
830	991	3	543	1,537	258	3	11	272
900	611	8	269	888	231	9	9	249
930	347	2	178	527	201	5	4	210
1000	302	6	105	413	201	6	11	218
1030	216	4	112	332	209	12	4	225
1100	245	2	90	337	270	17	26	313
1130	205	4	138	347	248	11	11	270
1200	280	5	84	369	299	13	6	318
1230	208	2	131	341	310	9	2	321
1300	260	0	84	344	299	4	7	310
1330	283	1	119	403	335	10	26	371
1400	285	5	75	365	317	5	4	326
1430	239	5	54	298	333	8	8	349
1500	242	2	85	329	393	8	9	410
1530	218	4	122	344	446	10	29	485
1600	261	1	146	408	555	3	117	675
1630	249	1	124	374	842	3	169	1,014
1700	274	1	125	400	886	4	288	1,178
1730	281	1	165	447	862	8	106	976
1800	225	3	87	315	653	2	30	685
TOTAL	7,973	66	3,937	11,976	8,614	158	902	9,674

Central Business District Cordon: 2004 Report

4. 97 Avenue W of 104 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time	------- ENTRIES --------					--------- EXITS ----------				
Ending	Auto	Truck	ETS	Other Bus	Total	Auto	Truck	ETS	Other Bus	Total
730	841	10	2	6	859	263	6		1	270
800	1,381	8	5	3	1,397	402	14		3	419
830	1,266	18	1	4	1,289	264	6		4	274
900	926	6	2	0	934	232	17		3	252
930	543	20		5	568	199	10		2	211
1000	437	11		2	450	225	5		5	235
1030	378	10		1	389	211	16		1	228
1100	418	6		0	424	250	10		1	261
1130	383	9		4	396	231	16		2	249
1200	431	14		5	450	241	13		2	256
1230	374	7		1	382	331	13		2	346
1300	520	0		3	523	321	11		0	332
1330	394	9		1	404	302	12		0	314
1400	424	9		3	436	329	16		0	345
1430	348	8		2	358	305	10		2	317
1500	429	11	1	9	450	334	12		1	347
1530	458	9	1	4	472	465	9		2	476
1600	432	5		3	440	513	8		3	524
1630	552	4		1	557	788	7		2	797
1700	556	5		0	561	923	7	2	2	934
1730	600	8		0	608	866	3		2	871
1800	581	2		0	583	561	7		2	570
TOTAL	12,672	189	12	57	12,930	8,556	228	2	42	8,828

PERSON CROSSINGS BY TIME OF DAY

Time	------- ENTRIES --------				--------- EXITS ----------			
Ending	Auto	Truck	ETS	Total	Auto	Truck	ETS	Total
730	991	10	39	1,040	305	7		312
800	1,689	10	94	1,793	467	16		483
830	1,467	20	12	1,499	319	11		330
900	1,090	6	16	1,112	262	23		285
930	626	24		650	238	15		253
1000	510	18		528	260	7		267
1030	459	13		472	258	18		276
1100	495	6		501	289	10		299
1130	450	13		463	275	20		295
1200	504	18		522	292	16		308
1230	447	10		457	393	14		407
1300	625	16		641	383	13		396
1330	470	11		481	342	15		357
1400	511	12		523	416	18		434
1430	427	8		435	369	11		380
1500	525	13	2	540	393	13		406
1530	551	10	1	562	538	11		549
1600	514	5		519	573	11		584
1630	671	5		676	921	10		931
1700	635	5		640	1,123	10	83	1,216
1730	700	8		708	999	6		1,005
1800	704	2		706	615	8		623
TOTAL	15,061	243	164	15,468	10,030	283	83	10,396

Central Business District Cordon: 2004 Report

6. 96 Avenue at 105 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	762	1	5	3	771	3	0		0	3
800	1,098	2	5	4	1,109	1	0		0	1
830	1,020	1	4	3	1,028	0	0		0	0
900	782	9	3	1	795	2	0		0	2
930	531	5	1	4	541	2	0		0	2
1000	561	9	1	5	576	1	1		0	2
1030	491	7	1	0	499	2	0		0	2
1100	506	7	1	2	516	2	0		0	2
1130	514	8	1	1	524	3	0		0	3
1200	532	5	1	1	539	10	0		0	10
1230	558	5	1	3	567	5	0		0	5
1300	566	4	1	1	572	4	0		0	4
1330	606	7	1	1	615	0	0		0	0
1400	553	8	1	2	564	7	0		0	7
1430	554	10	1	4	569	3	0		0	3
1500	555	12	1	1	569	2	0		0	2
1530	543	9	1	2	555	3	0		0	3
1600	539	4	1	0	544	7	0		0	7
1630	610	3	2	1	616	8	0		0	8
1700	596	3	1	1	601	34	0		0	34
1730	608	5	1	1	615	17	0		0	17
1800	699	6		3	708	10	0		0	10
TOTAL	13,784	130	35	44	13,993	126	1		0	127

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	865	1	152	1,018	3	0		3
800	1,263	3	163	1,429	1	0		1
830	1,159	1	103	1,263	0	0		0
900	869	10	64	943	2	0		2
930	596	8	20	624	3	0		3
1000	649	11	11	671	2	1		3
1030	582	9	6	597	3	0		3
1100	594	10	13	617	2	0		2
1130	624	14	11	649	4	0		4
1200	659	6	5	670	12	0		12
1230	674	7	15	696	6	0		6
1300	697	6	3	706	4	0		4
1330	764	10	4	778	0	0		0
1400	667	12	15	694	7	0		7
1430	678	13	11	702	3	0		3
1500	687	18	7	712	2	0		2
1530	660	11	10	681	4	0		4
1600	686	5	11	702	9	0		9
1630	723	4	10	737	9	0		9
1700	709	5	6	720	44	0		44
1730	730	6	16	752	20	0		20
1800	844	7		851	11	0		11
TOTAL	16,379	177	656	17,212	151	1		152

Central Business District Cordon: 2004 Report

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	92	0		0	92	9	0		0	9
800	163	1		0	164	19	0		0	19
830	180	1		0	181	11	0		0	11
900	82	0		0	82	27	0		0	27
930	46	1		0	47	10	0		1	11
1000	25	0		0	25	13	1		0	14
1030	21	0		0	21	8	1		0	9
1100	16	0		0	16	13	1		0	14
1130	14	1		0	15	17	0		0	17
1200	23	0		2	25	32	0		0	32
1230	22	0		0	22	31	0		0	31
1300	46	0		0	46	21	0		0	21
1330	45	0		0	45	18	0		0	18
1400	23	0		0	23	8	0		0	8
1430	22	0		0	22	16	0		2	18
1500	20	0		0	20	18	0		1	19
1530	21	0		0	21	22	0		0	22
1600	20	0		0	20	37	0		0	37
1630	33	0		0	33	106	0		0	106
1700	32	0		0	32	135	0		0	135
1730	20	0		0	20	108	0		0	108
1800	19	0		0	19	56	0		0	56
TOTAL	985	4		2	991	735	3		4	742

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	105	0		105	11	0		11
800	197	1		198	22	0		22
830	201	1		202	11	0		11
900	91	0		91	32	0		32
930	50	1		51	11	0		11
1000	29	0		29	14	1		15
1030	24	0		24	9	2		11
1100	19	0		19	16	2		18
1130	15	1		16	19	0		19
1200	25	0		25	36	0		36
1230	25	0		25	34	0		34
1300	57	0		57	26	0		26
1330	50	0		50	21	0		21
1400	27	0		27	9	0		9
1430	25	0		25	18	0		18
1500	21	0		21	22	0		22
1530	28	0		28	25	0		25
1600	24	0		24	45	0		45
1630	38	0		38	120	0		120
1700	36	0		36	165	0		165
1730	25	0		25	132	0		132
1800	26	0		26	66	0		66
TOTAL	1,138	4		1,142	864	5		869

Central Business District Cordon: 2004 Report

8. 109 Street S of 97 Avenue

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730						553	4	6	2	565
800						792	1	8	0	801
830						771	2	7	5	785
900						887	7	10	2	906
930						705	3	6	7	721
1000						570	9	5	2	586
1030						535	6	6	2	549
1100						654	4	5	0	663
1130						670	7	5	1	683
1200						691	8	5	2	706
1230						831	4	5	4	844
1300						703	2	5	1	711
1330						728	1	5	3	737
1400						808	10	5	2	825
1430						829	6	5	2	842
1500						832	4	6	5	847
1530						928	2	8	2	940
1600						979	2	10	2	993
1630						1,089	1	15	1	1,106
1700						1,155	0	19	1	1,175
1730						1,132	1	13	3	1,149
1800						937	1	8	0	946
TOTAL						17,779	85	167	49	18,080

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730					658	5	32	695
800					965	1	137	1,103
830					913	4	111	1,028
900					1,048	9	121	1,178
930					855	3	66	924
1000					676	12	47	735
1030					692	12	72	776
1100					821	5	68	894
1130					822	8	64	894
1200					831	12	74	917
1230					1,044	4	101	1,149
1300					917	2	117	1,036
1330					927	2	88	1,017
1400					1,044	12	75	1,131
1430					1,085	8	126	1,219
1500					1,066	4	204	1,274
1530					1,178	2	193	1,373
1600					1,221	2	271	1,494
1630					1,352	2	380	1,734
1700					1,416	0	643	2,059
1730					1,423	1	387	1,811
1800					1,162	2	142	1,306
TOTAL					22,116	112	3,519	25,747

9. 99 Avenue E of 110 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	55	0		0	55	65	1		1	67
800	89	2		0	91	77	1		2	80
830	109	4		1	114	96	1		0	97
900	88	0		4	92	92	4		0	96
930	55	1		0	56	64	2		0	66
1000	34	2		1	37	63	2		0	65
1030	32	2		1	35	49	0		1	50
1100	36	0		0	36	58	2		1	61
1130	51	2		0	53	48	0		0	48
1200	50	2		1	53	68	0		1	69
1230	46	1		0	47	59	3		0	62
1300	76	2		0	78	72	0		0	72
1330	44	2		0	46	46	0		0	46
1400	43	1		0	44	55	0		0	55
1430	44	0		0	44	57	2		0	59
1500	49	1		2	52	64	1		0	65
1530	97	1		4	102	78	1		1	80
1600	67	0		1	68	63	0		0	63
1630	112	0		0	112	78	1		0	79
1700	119	0		0	119	131	0		0	131
1730	86	0		0	86	114	1		0	115
1800	60	0		0	60	77	0		0	77
TOTAL	1,442	23		15	1,480	1,574	22		7	1,603

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	59	0		59	73	1		74
800	105	2		107	85	1		86
830	128	9		137	105	2		107
900	106	0		106	102	5		107
930	65	1		66	72	2		74
1000	40	3		43	68	2		70
1030	40	2		42	61	0		61
1100	44	0		44	69	2		71
1130	56	2		58	61	0		61
1200	60	2		62	83	0		83
1230	53	1		54	78	3		81
1300	88	2		90	86	0		86
1330	50	2		52	56	0		56
1400	55	1		56	71	0		71
1430	51	0		51	64	2		66
1500	60	1		61	77	2		79
1530	132	1		133	88	1		89
1600	78	0		78	81	0		81
1630	130	1		131	99	2		101
1700	138	0		138	166	0		166
1730	103	0		103	140	2		142
1800	74	0		74	93	0		93
TOTAL	1,715	30		1,745	1,878	27		1,905

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VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	161	0		1	162	94	0		4	98
800	276	1		0	277	145	0		2	147
830	311	4		2	317	167	2		2	171
900	211	1		1	213	141	5		0	146
930	117	2		0	119	91	2		0	93
1000	126	1		0	127	108	0		0	108
1030	113	2		0	115	91	2		0	93
1100	105	2		1	108	96	0		1	97
1130	118	4		0	122	113	2		0	115
1200	129	1		0	130	164	2		1	167
1230	160	2		2	164	158	2		0	160
1300	154	1		2	157	124	1		1	126
1330	172	2		1	175	105	1		0	106
1400	149	4		1	154	164	4		0	168
1430	133	1		1	135	129	3		0	132
1500	149	3		0	152	160	2		1	163
1530	140	2		1	143	156	2		0	158
1600	167	3		0	170	205	0		0	205
1630	172	1		0	173	296	2		1	299
1700	194	2		2	198	412	1		3	416
1730	148	1		1	150	443	2		1	446
1800	122	1		1	124	219	0		0	219
TOTAL	3,527	41		17	3,585	3,781	35		17	3,833

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	189	0		189	105	0		105
800	339	1		340	157	0		157
830	361	4		365	188	2		190
900	236	1		237	164	5		169
930	137	4		141	108	2		110
1000	153	2		155	133	0		133
1030	140	2		142	107	2		109
1100	125	2		127	112	0		112
1130	141	6		147	134	2		136
1200	158	3		161	209	3		212
1230	194	2		196	190	3		193
1300	186	2		188	154	1		155
1330	216	3		219	129	1		130
1400	187	5		192	203	5		208
1430	166	2		168	162	4		166
1500	182	4		186	189	2		191
1530	168	2		170	196	3		199
1600	209	3		212	251	0		251
1630	214	1		215	352	2		354
1700	230	3		233	487	1		488
1730	191	1		192	534	2		536
1800	152	1		153	257	0		257
TOTAL	4,274	54		4,328	4,521	40		4,561

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VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	619	5	13	2	639	241	4	9	0	254
800	810	4	14	1	829	330	4	10	2	346
830	804	10	13	0	827	381	6	10	3	400
900	689	5	11	1	706	341	9	9	2	361
930	426	7	7	2	442	337	15	8	2	362
1000	376	7	6	0	389	314	13	7	0	334
1030	375	11	6	0	392	316	10	6	0	332
1100	437	10	6	2	455	415	11	6	2	434
1130	400	10	6	2	418	417	17	6	2	442
1200	438	9	8	1	456	506	15	7	2	530
1230	477	5	8	1	491	427	8	8	0	443
1300	487	11	8	1	507	468	5	8	1	482
1330	472	5	8	1	486	424	7	7	2	440
1400	539	9	8	0	556	486	5	8	0	499
1430	466	5	8	0	479	519	8	8	3	538
1500	462	9	10	0	481	496	9	9	2	516
1530	464	5	10	1	480	514	10	11	1	536
1600	458	11	11	1	481	573	2	13	0	588
1630	528	8	10	1	547	726	7	15	0	748
1700	542	5	9	2	558	869	2	15	2	888
1730	499	0	10	1	510	874	3	12	0	889
1800	412	3	9	0	424	640	0	10	0	650
TOTAL	11,180	154	199	20	11,553	10,614	170	202	26	11,012

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	742	5	412	1,159	263	4	161	428
800	998	4	689	1,691	357	7	232	596
830	955	10	510	1,475	425	9	222	656
900	833	7	363	1,203	380	11	156	547
930	491	12	255	758	357	17	133	507
1000	457	9	193	659	337	15	122	474
1030	473	12	174	659	360	11	147	518
1100	532	13	207	752	492	15	119	626
1130	493	11	196	700	465	17	149	631
1200	530	13	180	723	534	16	200	750
1230	611	8	178	797	476	8	191	675
1300	621	15	199	835	532	8	220	760
1330	618	6	189	813	489	8	138	635
1400	679	11	183	873	617	6	208	831
1430	617	6	194	817	636	11	229	876
1500	579	13	197	789	571	11	284	866
1530	574	6	183	763	599	12	310	921
1600	599	15	278	892	694	2	347	1,043
1630	636	11	262	909	873	10	488	1,371
1700	644	7	277	928	1,106	2	538	1,646
1730	625	0	231	856	1,093	4	451	1,548
1800	508	3	168	679	814	0	249	1,063
TOTAL	13,815	197	5,718	19,730	12,470	204	5,294	17,968

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12. 104 Avenue E of 111 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	663	5	5	0	673	308	7	4	1	320
800	986	9	6	0	1,001	349	13	4	0	366
830	917	4	6	2	929	380	9	3	0	392
900	599	5	4	0	608	450	12	2	0	464
930	684	8	3	4	699	382	11	3	3	399
1000	543	7	4	6	560	403	15	4	3	425
1030	479	15	4	3	501	447	15	3	0	465
1100	487	12	3	2	504	459	17	4	3	483
1130	491	16	4	3	514	496	9	3	6	514
1200	572	9	3	4	588	628	14	4	5	651
1230	530	8	4	1	543	691	17	3	3	714
1300	700	8	3	5	716	582	13	4	3	602
1330	600	7	4	2	613	569	21	3	2	595
1400	654	8	3	0	665	579	17	5	3	604
1430	614	17	4	5	640	613	11	3	1	628
1500	498	6	3	1	508	616	15	5	2	638
1530	495	10	6	1	512	693	14	4	2	713
1600	194	2	5	0	201	1,164	15	5	2	1,186
1630	586	8	4	2	600	1,030	12	4	2	1,048
1700	610	10	3	1	624	1,035	7	6	1	1,049
1730	543	2	3	1	549	1,161	3	6	0	1,170
1800	632	2	3	0	637	980	7	3	0	990
TOTAL	13,077	178	87	43	13,385	14,015	274	85	42	14,416

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	808	7	199	1,014	337	7	36	380
800	1,194	13	281	1,488	377	19	88	484
830	1,078	4	248	1,330	418	10	62	490
900	685	5	175	865	500	14	28	542
930	793	9	121	923	441	13	25	479
1000	623	9	60	692	476	19	54	549
1030	550	23	62	635	513	20	65	598
1100	580	14	51	645	536	20	56	612
1130	592	20	64	676	608	15	61	684
1200	664	13	67	744	746	18	85	849
1230	611	11	69	691	853	20	78	951
1300	847	8	65	920	701	14	78	793
1330	761	7	72	840	685	24	75	784
1400	765	11	64	840	680	22	98	800
1430	746	17	80	843	765	12	83	860
1500	597	6	56	659	759	21	90	870
1530	595	12	70	677	854	15	146	1,015
1600	226	2	65	293	1,401	17	200	1,618
1630	721	9	129	859	1,232	14	169	1,415
1700	755	12	99	866	1,270	9	190	1,469
1730	703	4	72	779	1,427	3	185	1,615
1800	832	4	40	876	1,156	8	89	1,253
TOTAL	15,726	220	2,209	18,155	16,735	334	2,041	19,110

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13. 109 Street S of 105 Avenue

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	577	9	3	1	590	418	6	3	1	428
800	781	9	7	1	798	551	10	6	5	572
830	804	11	8	4	827	410	8	5	0	423
900	683	15	6	2	706	439	10	4	4	457
930	484	9	3	1	497	297	17	2	3	319
1000	511	14	3	3	531	311	12	2	4	329
1030	511	19	2	4	536	290	21	3	3	317
1100	486	20	3	1	510	280	18	2	3	303
1130	527	20	2	5	554	312	20	3	1	336
1200	591	17	2	7	617	431	12	2	1	446
1230	577	17	3	3	600	399	10	3	2	414
1300	592	15	3	7	617	355	18	2	1	376
1330	563	14	2	1	580	340	8	3	1	352
1400	626	12	3	1	642	369	16	2	1	388
1430	560	22	2	5	589	377	13	3	3	396
1500	608	17	2	6	633	378	13	2	3	396
1530	635	14	7	2	658	383	13	6	4	406
1600	722	7	4	2	735	443	11	6	2	462
1630	808	9	5	5	827	697	12	6	4	719
1700	649	7	4	1	661	853	3	6	0	862
1730	548	8	5	1	562	715	4	4	0	723
1800	546	7	2	1	556	621	6	3	1	631
TOTAL	13,389	292	81	64	13,826	9,669	261	78	47	10,055

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	684	10	91	785	501	7	48	556
800	953	13	286	1,252	634	11	185	830
830	955	13	137	1,105	493	10	182	685
900	801	19	128	948	514	11	104	629
930	561	9	88	658	367	18	53	438
1000	641	16	144	801	385	13	54	452
1030	644	20	69	733	382	21	62	465
1100	584	26	120	730	356	18	39	413
1130	640	22	55	717	408	23	53	484
1200	802	18	52	872	555	13	61	629
1230	805	21	55	881	529	10	65	604
1300	781	19	64	864	488	20	55	563
1330	721	19	69	809	489	9	83	581
1400	803	14	89	906	510	17	64	591
1430	700	24	80	804	514	17	119	650
1500	806	19	90	915	530	14	65	609
1530	818	15	260	1,093	534	15	189	738
1600	946	8	138	1,092	591	14	165	770
1630	1,001	13	79	1,093	868	16	195	1,079
1700	842	8	157	1,007	1,018	4	210	1,232
1730	725	14	61	800	853	7	148	1,008
1800	744	7	59	810	754	7	78	839
TOTAL	16,956	347	2,371	19,674	12,273	295	2,277	14,845

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14. 105 Street S of 105 Avenue

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	257	1	1	0	259	263	7		1	271
800	417	5	1	0	423	422	7		1	430
830	461	5	1	1	468	305	5		1	311
900	311	7		1	319	284	5		2	291
930	152	9		1	162	218	6		0	224
1000	162	5		0	167	190	4		1	195
1030	103	1		0	104	164	4		2	170
1100	154	8		1	163	223	7		1	231
1130	136	2		0	138	174	11		1	186
1200	170	6		2	178	221	10		0	231
1230	197	10		2	209	221	11		1	233
1300	210	5		4	219	199	6		0	205
1330	174	10		0	184	262	6		1	269
1400	214	8		1	223	244	4		0	248
1430	227	7		1	235	186	8		1	195
1500	200	5		1	206	250	8		2	260
1530	259	9		3	271	286	7		3	296
1600	247	6		0	253	286	6		0	292
1630	281	4		0	285	385	3		0	388
1700	291	2		0	293	523	5	1	1	530
1730	250	1		0	251	434	2		1	437
1800	211	1		1	213	358	1		2	361
TOTAL	5,084	117	3	19	5,223	6,098	133	1	22	6,254

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	314	1	27	342	295	9		304
800	521	6	27	554	488	9		497
830	547	6	6	559	353	8		361
900	371	10		381	330	5		335
930	174	12		186	265	8		273
1000	201	6		207	229	5		234
1030	134	1		135	193	5		198
1100	195	8		203	274	8		282
1130	167	2		169	216	12		228
1200	216	7		223	289	10		299
1230	244	15		259	279	12		291
1300	292	8		300	247	6		253
1330	214	14		228	334	10		344
1400	273	11		284	318	7		325
1430	302	7		309	237	9		246
1500	244	6		250	314	10		324
1530	321	14		335	386	11		397
1600	311	8		319	365	6		371
1630	336	4		340	487	4		491
1700	347	2		349	683	5	13	701
1730	294	1		295	543	2		545
1800	282	1		283	438	1		439
TOTAL	6,300	150	60	6,510	7,561	162	13	7,736

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15. 101 Street S of 105 Avenue

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	409	6	13	1	429	318	7	12	0	337
800	502	7	14	5	528	413	3	13	3	432
830	602	6	14	4	626	397	4	17	3	421
900	456	9	11	1	477	352	11	13	5	381
930	278	5	9	3	295	305	17	11	3	336
1000	331	13	7	2	353	320	3	9	4	336
1030	235	9	7	2	253	309	12	7	3	331
1100	269	12	7	4	292	313	7	8	4	332
1130	260	3	8	1	272	310	16	8	4	338
1200	270	4	8	1	283	378	5	9	4	396
1230	310	10	9	6	335	435	6	9	6	456
1300	298	5	8	6	317	367	8	8	4	387
1330	338	9	8	4	359	360	12	8	10	390
1400	313	10	9	3	335	376	12	9	3	400
1430	427	10	9	4	450	452	12	10	1	475
1500	263	5	11	2	281	431	9	10	4	454
1530	430	7	15	3	455	487	5	16	5	513
1600	344	3	15	3	365	488	6	16	3	513
1630	408	7	16	3	434	614	14	17	3	648
1700	313	4	13	5	335	690	6	19	1	716
1730	326	2	12	1	341	669	4	16	2	691
1800	272	2	10	3	287	551	7	12	5	575
TOTAL	7,654	148	233	67	8,102	9,335	186	257	80	9,858

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	504	8	335	847	356	8	344	708
800	617	9	632	1,258	481	4	454	939
830	728	7	391	1,126	488	4	722	1,214
900	574	10	272	856	428	13	516	957
930	358	7	149	514	357	21	259	637
1000	442	15	183	640	396	3	221	620
1030	304	9	146	459	384	15	145	544
1100	368	12	163	543	387	8	165	560
1130	363	3	166	532	395	19	230	644
1200	356	6	214	576	501	8	207	716
1230	436	10	222	668	592	7	250	849
1300	415	6	168	589	492	9	195	696
1330	475	9	118	602	477	12	223	712
1400	421	10	202	633	495	18	178	691
1430	564	11	241	816	594	14	221	829
1500	355	5	268	628	549	11	246	806
1530	558	7	451	1,016	632	6	492	1,130
1600	456	5	560	1,021	604	7	494	1,105
1630	546	7	370	923	764	19	441	1,224
1700	428	4	469	901	871	7	708	1,586
1730	453	4	277	734	822	4	465	1,291
1800	360	2	170	532	702	8	213	923
TOTAL	10,078	166	6,167	16,411	11,767	225	7,389	19,381

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16. 97 Street S of 105 Avenue

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	418	5	11	0	434	111	1	2	0	114
800	564	4	15	0	583	142	0	3	2	147
830	511	4	11	0	526	166	1	3	0	170
900	436	3	7	0	446	113	6	2	1	122
930	270	4	4	0	278	145	3	3	1	152
1000	245	5	3	1	254	178	2	3	0	183
1030	223	1	3	2	229	191	3	3	1	198
1100	214	4	3	1	222	193	3	3	1	200
1130	210	5	3	0	218	202	5	3	0	210
1200	235	8	3	1	247	237	5	3	0	245
1230	224	6	3	0	233	240	3	3	2	248
1300	273	4	3	0	280	220	3	3	1	227
1330	274	6	3	0	283	233	4	3	0	240
1400	238	9	3	1	251	242	4	3	2	251
1430	259	4	4	1	268	305	3	4	1	313
1500	234	6	3	2	245	274	3	5	0	282
1530	229	5	3	0	237	331	3	6	0	340
1600	287	2	3	1	293	336	4	8	4	352
1630	268	4	3	2	277	473	6	10	1	490
1700	280	8	3	0	291	521	3	11	1	536
1730	221	0	3	0	224	451	2	9	0	462
1800	204	3	1	0	208	311	4	5	2	322
TOTAL	6,317	100	98	12	6,527	5,615	71	98	20	5,804

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	513	5	386	904	118	1	7	126
800	693	4	418	1,115	154	0	40	194
830	611	4	330	945	186	1	36	223
900	513	3	195	711	124	8	46	178
930	334	4	88	426	183	3	18	204
1000	331	6	44	381	235	2	62	299
1030	302	1	73	376	253	3	43	299
1100	277	6	56	339	249	4	30	283
1130	259	9	52	320	267	6	40	313
1200	305	9	53	367	333	5	56	394
1230	312	8	42	362	332	3	62	397
1300	358	5	74	437	299	3	49	351
1330	351	6	67	424	315	4	38	357
1400	311	10	67	388	348	6	57	411
1430	366	6	46	418	416	5	65	486
1500	308	9	18	335	375	5	116	496
1530	298	6	58	362	456	3	154	613
1600	371	2	33	406	453	4	205	662
1630	324	6	34	364	622	6	319	947
1700	347	8	26	381	671	8	347	1,026
1730	270	0	37	307	565	2	230	797
1800	272	3	15	290	396	4	84	484
TOTAL	8,026	120	2,212	10,358	7,350	86	2,104	9,540

17. 103A Avenue E of 97 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	196	4		2	202	129	6		0	135
800	427	6		0	433	209	6		0	215
830	358	7		0	365	218	6		2	226
900	278	12		2	292	190	13		1	204
930	190	12		1	203	152	11		0	163
1000	199	9		0	208	175	7		1	183
1030	209	5		0	214	169	6		1	176
1100	208	6		0	214	187	14		4	205
1130	217	5		0	222	215	6		0	221
1200	267	7		1	275	212	3		0	215
1230	216	3		2	221	238	4		2	244
1300	223	5		1	229	253	9		2	264
1330	233	3		0	236	285	8		0	293
1400	216	6		2	224	247	4		1	252
1430	244	9		0	253	289	8		0	297
1500	229	7		0	236	236	10		1	247
1530	269	4		2	275	312	11		2	325
1600	280	4		1	285	324	7		1	332
1630	350	1		2	353	396	5		2	403
1700	378	1		0	379	456	4		1	461
1730	268	0		0	268	382	7		0	389
1800	233	0		0	233	321	1		0	322
TOTAL	5,688	116		16	5,820	5,595	156		21	5,772

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	244	4		248	149	6		155
800	514	6		520	230	6		236
830	420	9		429	243	8		251
900	335	13		348	210	16		226
930	230	16		246	179	13		192
1000	254	14		268	207	8		215
1030	251	6		257	202	11		213
1100	252	14		266	236	16		252
1130	278	6		284	260	8		268
1200	336	8		344	259	3		262
1230	272	4		276	294	4		298
1300	290	5		295	315	9		324
1330	296	4		300	350	9		359
1400	287	12		299	299	4		303
1430	292	14		306	375	11		386
1500	289	8		297	300	11		311
1530	343	5		348	376	12		388
1600	352	5		357	398	7		405
1630	434	2		436	473	6		479
1700	475	1		476	578	4		582
1730	319	0		319	456	7		463
1800	307	0		307	395	1		396
TOTAL	7,070	156		7,226	6,784	180		6,964

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18. 103 Avenue E of 97 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	1	0		0	1	32	0		0	32
800	3	0		0	3	50	0		0	50
830	9	0		0	9	47	2		0	49
900	14	1		0	15	44	2		0	46
930	16	0		0	16	47	1		0	48
1000	23	0		0	23	36	1		0	37
1030	34	0		0	34	28	1		0	29
1100	23	0		0	23	30	0		0	30
1130	21	0		0	21	27	0		0	27
1200	16	0		0	16	29	1		0	30
1230	26	1		0	27	30	1		0	31
1300	14	0		1	15	35	1		0	36
1330	12	0		0	12	34	0		0	34
1400	22	0		0	22	40	0		0	40
1430	22	0		0	22	35	0		0	35
1500	28	1		0	29	32	3		0	35
1530	21	0		0	21	23	0		0	23
1600	29	0		0	29	22	0		0	22
1630	31	1		0	32	14	1		1	16
1700	39	0		0	39	11	1		0	12
1730	17	1		0	18	14	0		0	14
1800	13	0		0	13	9	0		0	9
TOTAL	434	5		1	440	669	15		1	685

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	1	0		1	37	0		37
800	4	0		4	52	0		52
830	11	0		11	52	3		55
900	16	3		19	49	2		51
930	21	0		21	65	1		66
1000	32	0		32	50	1		51
1030	41	0		41	34	1		35
1100	28	0		28	39	0		39
1130	24	0		24	32	0		32
1200	23	0		23	34	1		35
1230	33	1		34	37	1		38
1300	16	0		16	44	1		45
1330	14	0		14	43	0		43
1400	31	0		31	51	0		51
1430	28	0		28	47	0		47
1500	34	1		35	42	3		45
1530	24	0		24	27	0		27
1600	34	0		34	27	0		27
1630	35	1		36	22	1		23
1700	45	0		45	15	1		16
1730	21	1		22	20	0		20
1800	16	0		16	11	0		11
TOTAL	532	7		539	830	16		846

19. 102A Avenue E of 97 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	175	1	8	0	184					
800	407	5	8	3	423					
830	442	2	9	0	453					
900	267	5	6	1	279					
930	107	8	6	1	122					
1000	124	4	5	0	133					
1030	122	7	6	0	135					
1100	133	4	5	0	142					
1130	116	4	6	0	126					
1200	124	1	5	0	130					
1230	136	1	6	0	143					
1300	148	7	5	1	161					
1330	180	6	6	1	193					
1400	152	1	5	2	160					
1430	140	5	6	0	151					
1500	113	4	6	1	124					
1530	136	6	7	0	149					
1600	147	2	11	1	161					
1630	223	0	7	1	231					
1700	212	1	8	2	223					
1730	143	1	6	0	150					
1800	109	0	6	0	115					
TOTAL	3,856	75	143	14	4,088					

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	225	1	222	448				
800	525	6	294	825				
830	537	2	220	759				
900	327	5	164	496				
930	128	10	144	282				
1000	146	4	107	257				
1030	158	9	119	286				
1100	161	5	127	293				
1130	158	7	147	312				
1200	160	2	116	278				
1230	185	1	121	307				
1300	184	9	111	304				
1330	238	7	105	350				
1400	189	1	113	303				
1430	185	5	163	353				
1500	144	5	94	243				
1530	178	7	98	283				
1600	166	4	297	467				
1630	264	0	159	423				
1700	247	1	104	352				
1730	166	1	89	256				
1800	147	0	63	210				
TOTAL	4,818	92	3,177	8,087				

20. 102 Avenue E of 97 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730						106	0	6	0	112
800						106	4	8	2	120
830						93	3	9	0	105
900						99	4	6	0	109
930						76	4	7	0	87
1000						74	0	5	1	80
1030						86	4	6	1	97
1100						97	5	5	0	107
1130						108	5	6	0	119
1200						98	4	5	0	107
1230						128	4	6	0	138
1300						123	3	5	0	131
1330						123	3	6	0	132
1400						112	0	5	0	117
1430						103	4	6	1	114
1500						129	5	5	1	140
1530						128	5	7	0	140
1600						169	1	7	0	177
1630						226	1	8	2	237
1700						279	0	8	0	287
1730						277	0	8	0	285
1800						112	0	7	0	119
TOTAL						2,852	59	141	8	3,060

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730					113	0	39	152
800					113	5	152	270
830					107	4	248	359
900					112	4	69	185
930					95	7	85	187
1000					87	0	62	149
1030					113	5	77	195
1100					124	14	95	233
1130					146	6	74	226
1200					137	4	68	209
1230					181	4	155	340
1300					164	3	119	286
1330					159	4	116	279
1400					149	0	150	299
1430					138	4	134	276
1500					181	7	153	341
1530					160	6	177	343
1600					242	1	206	449
1630					310	1	172	483
1700					374	0	267	641
1730					360	0	215	575
1800					146	0	162	308
TOTAL					3,711	79	2,995	6,785

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	3	0		0	3	37	0		0	37
800	5	0		0	5	37	2		0	39
830	20	1		0	21	41	0		0	41
900	18	1		0	19	41	0		0	41
930	17	1		0	18	35	1		0	36
1000	29	1		0	30	42	0		0	42
1030	31	0		0	31	33	0		0	33
1100	36	0		0	36	37	1		0	38
1130	39	0		0	39	31	0		1	32
1200	30	0		0	30	33	2		0	35
1230	27	0		0	27	47	0		0	47
1300	31	0		0	31	36	0		0	36
1330	29	0		0	29	45	0		0	45
1400	37	0		0	37	29	1		1	31
1430	50	0		0	50	35	2		0	37
1500	36	1		0	37	31	0		0	31
1530	33	0		0	33	25	0		1	26
1600	42	3		1	46	22	2		1	25
1630	47	0		0	47	32	0		0	32
1700	34	0		0	34	18	1		0	19
1730	37	0		0	37	11	0		0	11
1800	8	0		0	8	6	1		0	7
TOTAL	639	8		1	648	704	13		4	721

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	5	0		5	46	0		46
800	7	0		7	40	3		43
830	23	1		24	50	0		50
900	19	1		20	47	0		47
930	21	1		22	44	1		45
1000	35	1		36	61	0		61
1030	42	0		42	43	0		43
1100	45	0		45	43	1		44
1130	48	0		48	50	0		50
1200	41	0		41	41	2		43
1230	34	0		34	59	0		59
1300	40	0		40	53	0		53
1330	40	0		40	65	0		65
1400	47	0		47	36	2		38
1430	71	0		71	41	2		43
1500	43	2		45	37	0		37
1530	45	0		45	33	0		33
1600	57	4		61	27	3		30
1630	58	0		58	46	0		46
1700	39	0		39	24	2		26
1730	42	0		42	15	0		15
1800	10	0		10	8	1		9
TOTAL	812	10		822	909	17		926

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22. Jasper Avenue E of 97 Street

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	337	1	2	0	340	137	1	2	1	141
800	566	2	2	2	572	172	2	2	1	177
830	497	4	2	0	503	156	2	2	0	160
900	383	3	2	0	388	134	5	2	0	141
930	248	8	2	0	258	155	2	2	1	160
1000	223	6	2	0	231	135	2	1	0	138
1030	207	5	1	1	214	131	4	1	0	136
1100	202	10	1	1	214	119	4	1	0	124
1130	197	6	1	0	204	172	1	1	0	174
1200	207	4	1	3	215	155	0	1	0	156
1230	279	2	1	0	282	172	4	1	1	178
1300	232	3	1	0	236	147	4	1	1	153
1330	271	6	1	3	281	152	3	1	1	157
1400	271	3	1	4	279	202	5	1	2	210
1430	275	1	1	0	277	165	1	1	1	168
1500	245	7	1	1	254	182	3	2	1	188
1530	267	9	2	2	280	235	5	2	2	244
1600	255	0	2	1	258	216	3	2	0	221
1630	270	2	2	2	276	280	2	2	1	285
1700	289	2	2	0	293	393	3	2	0	398
1730	227	1	2	0	230	358	1	2	0	361
1800	183	0	1	0	184	189	2	2	0	193
TOTAL	6,131	85	33	20	6,269	4,157	59	34	13	4,263

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	418	1	16	435	153	2	6	161
800	705	2	45	752	187	2	6	195
830	613	5	39	657	164	3	4	171
900	456	3	36	495	156	7	3	166
930	306	9	23	338	191	5	5	201
1000	287	7	35	329	162	4	3	169
1030	265	7	17	289	164	5	7	176
1100	268	14	5	287	151	7	13	171
1130	250	10	13	273	225	6	3	234
1200	263	6	7	276	202	3	3	208
1230	333	2	8	343	228	6	5	239
1300	304	4	9	317	186	5	8	199
1330	377	9	13	399	191	4	4	199
1400	353	5	10	368	273	8	8	289
1430	347	1	2	350	212	3	13	228
1500	319	7	13	339	236	3	31	270
1530	331	11	14	356	301	6	13	320
1600	317	0	13	330	287	4	26	317
1630	332	2	29	363	362	3	22	387
1700	353	3	15	371	515	6	34	555
1730	273	1	11	285	478	3	25	506
1800	232	0	1	233	233	2	10	245
TOTAL	7,702	109	374	8,185	5,257	97	252	5,606

23. LRT N of Churchill Stn

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730			5		5			5		5
800			5		5			5		5
830			5		5			5		5
900			5		5			5		5
930			3		3			4		4
1000			3		3			3		3
1030			3		3			3		3
1100			3		3			3		3
1130			3		3			3		3
1200			3		3			3		3
1230			3		3			3		3
1300			3		3			3		3
1330			3		3			3		3
1400			3		3			3		3
1430			3		3			3		3
1500			3		3			3		3
1530			5		5			4		4
1600			5		5			5		5
1630			5		5			5		5
1700			5		5			5		5
1730			4		4			5		5
1800			4		4			4		4
TOTAL			84		84			85		85

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730			1,051	1,051			87	87
800			1,803	1,803			93	93
830			1,506	1,506			96	96
900			1,001	1,001			65	65
930			671	671			67	67
1000			336	336			117	117
1030			384	384			86	86
1100			345	345			160	160
1130			211	211			204	204
1200			234	234			163	163
1230			264	264			269	269
1300			239	239			290	290
1330			209	209			360	360
1400			214	214			329	329
1430			216	216			490	490
1500			179	179			402	402
1530			222	222			784	784
1600			199	199			829	829
1630			188	188			1,208	1,208
1700			192	192			1,324	1,324
1730			128	128			976	976
1800			173	173			559	559
TOTAL			9,965	9,965			8,958	8,958

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VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730			5		5			5		5
800			5		5			5		5
830			5		5			5		5
900			5		5			5		5
930			3		3			3		3
1000			3		3			3		3
1030			3		3			3		3
1100			3		3			3		3
1130			3		3			3		3
1200			3		3			3		3
1230			3		3			3		3
1300			3		3			3		3
1330			3		3			3		3
1400			3		3			3		3
1430			3		3			3		3
1500			3		3			3		3
1530			5		5			5		5
1600			5		5			5		5
1630			5		5			5		5
1700			5		5			5		5
1730			5		5			5		5
1800			3		3			2		2
TOTAL			84		84			83		83

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730			167	167			357	357
800			217	217			972	972
830			282	282			412	412
900			150	150			578	578
930			75	75			913	913
1000			132	132			257	257
1030			96	96			293	293
1100			156	156			525	525
1130			296	296			175	175
1200			461	461			205	205
1230			268	268			351	351
1300			419	419			289	289
1330			402	402			243	243
1400			316	316			247	247
1430			574	574			197	197
1500			314	314			246	246
1530			736	736			221	221
1600			538	538			255	255
1630			643	643			234	234
1700			641	641			362	362
1730			463	463			261	261
1800			256	256			158	158
TOTAL			7,602	7,602			7,751	7,751

25. 106 Street N of River Valley Rd

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730										
800										
830										
900										
930										
1000										
1030										
1100										
1130										
1200										
1230										
1300										
1330										
1400										
1430										
1500										
1530										
1600						6	0		0	6
1630						13	0		0	13
1700						33	0		0	33
1730						21	0		0	21
1800						10	0		0	10
TOTAL						83	0		0	83

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730								
800								
830								
900								
930								
1000								
1030								
1100								
1130								
1200								
1230								
1300								
1330								
1400								
1430								
1500								
1530								
1600					6	0		6
1630					14	0		14
1700					36	0		36
1730					21	0		21
1800					14	0		14
TOTAL					91	0		91

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VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	12	1		0	13	17	1		0	18
800	24	0		0	24	24	1		0	25
830	22	0		0	22	13	0		0	13
900	28	0		0	28	16	0		0	16
930	15	1		0	16	13	1		0	14
1000	29	0		0	29	26	0		0	26
1030	3	0		0	3	6	0		0	6
1100	16	0		0	16	16	0		0	16
1130	13	0		0	13	10	0		0	10
1200	21	0		1	22	18	0		1	19
1230	11	0		1	12	20	0		1	21
1300	10	0		0	10	12	0		0	12
1330	12	0		2	14	19	0		1	20
1400	18	0		0	18	17	0		0	17
1430	13	1		0	14	17	0		0	17
1500	17	0		0	17	18	1		1	20
1530	18	0		0	18	29	0		0	29
1600	19	0		0	19	16	0		0	16
1630	21	0		0	21	29	0		0	29
1700	16	0		0	16	27	0		0	27
1730	19	0		0	19	23	0		0	23
1800	9	0		0	9	23	0		0	23
TOTAL	366	3		4	373	409	4		4	417

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	20	1		21	20	1		21
800	43	0		43	24	1		25
830	32	0		32	14	0		14
900	41	0		41	18	0		18
930	20	2		22	13	2		15
1000	43	0		43	26	0		26
1030	5	0		5	7	0		7
1100	21	0		21	21	0		21
1130	17	0		17	12	0		12
1200	25	0		25	24	0		24
1230	13	0		13	27	0		27
1300	13	0		13	13	0		13
1330	16	0		16	26	0		26
1400	22	0		22	24	0		24
1430	15	1		16	24	0		24
1500	21	0		21	27	1		28
1530	22	0		22	42	0		42
1600	22	0		22	22	0		22
1630	26	0		26	38	0		38
1700	19	0		19	39	0		39
1730	28	0		28	27	0		27
1800	9	0		9	29	0		29
TOTAL	493	4		497	517	5		522

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	24	0		0	24	3	0		0	3
800	61	0		0	61	2	0		0	2
830	62	0		0	62	4	0		0	4
900	54	0		0	54	6	0		0	6
930	28	0		0	28	5	0		0	5
1000	26	0		0	26	12	0		0	12
1030	14	0		0	14	10	0		0	10
1100	26	0		0	26	8	0		0	8
1130	14	0		0	14	12	0		0	12
1200	22	0		0	22	23	0		0	23
1230	10	0		0	10	38	0		0	38
1300	17	0		0	17	11	0		0	11
1330	16	0		0	16	21	0		0	21
1400	16	0		0	16	19	0		0	19
1430	6	0		0	6	14	0		0	14
1500	10	0		0	10	23	0		0	23
1530	7	0		0	7	18	0		0	18
1600	8	0		0	8	19	0		0	19
1630	12	0		0	12	45	0		0	45
1700	18	0		0	18	51	0		0	51
1730	49	0		0	49	37	0		0	37
1800	114	0		0	114	26	0		0	26
TOTAL	614	0		0	614	407	0		0	407

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	25	0		25	4	0		4
800	69	0		69	4	0		4
830	67	0		67	5	0		5
900	56	0		56	7	0		7
930	28	0		28	5	0		5
1000	29	0		29	14	0		14
1030	15	0		15	10	0		10
1100	26	0		26	8	0		8
1130	14	0		14	13	0		13
1200	25	0		25	25	0		25
1230	10	0		10	47	0		47
1300	19	0		19	13	0		13
1330	19	0		19	24	0		24
1400	18	0		18	22	0		22
1430	6	0		6	20	0		20
1500	11	0		11	24	0		24
1530	9	0		9	21	0		21
1600	11	0		11	21	0		21
1630	13	0		13	49	0		49
1700	21	0		21	57	0		57
1730	52	0		52	38	0		38
1800	124	0		124	29	0		29
TOTAL	667	0		667	460	0		460

28. 107 Street S of 105 Avenue

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	21	0		0	21	10	1		0	11
800	46	0		0	46	24	1		0	25
830	24	0		0	24	19	1		0	20
900	21	0		0	21	19	0		0	19
930	11	0		0	11	13	2		0	15
1000	17	1		0	18	22	0		0	22
1030	10	0		0	10	13	3		0	16
1100	9	0		0	9	16	4		0	20
1130	13	1		0	14	17	3		0	20
1200	15	0		0	15	14	0		0	14
1230	7	0		0	7	10	2		0	12
1300	7	0		0	7	16	1		0	17
1330	14	0		0	14	14	0		0	14
1400	17	0		0	17	20	2		0	22
1430	8	0		1	9	18	2		0	20
1500	5	0		0	5	13	0		1	14
1530	16	0		0	16	17	2		0	19
1600	11	1		0	12	20	0		0	20
1630	24	0		0	24	27	0		0	27
1700	24	0		0	24	35	0		0	35
1730	20	0		0	20	25	1		0	26
1800	29	0		0	29	22	0		0	22
TOTAL	369	3		1	373	404	25		1	430

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	28	0		28	10	1		11
800	69	0		69	28	1		29
830	36	0		36	20	1		21
900	29	0		29	19	0		19
930	15	0		15	13	2		15
1000	18	1		19	23	0		23
1030	14	0		14	17	3		20
1100	16	0		16	17	4		21
1130	21	1		22	20	3		23
1200	20	0		20	18	0		18
1230	9	0		9	17	2		19
1300	7	0		7	20	1		21
1330	17	0		17	15	0		15
1400	26	0		26	24	2		26
1430	12	0		12	21	2		23
1500	6	0		6	16	0		16
1530	20	0		20	21	2		23
1600	15	2		17	28	0		28
1630	30	0		30	38	0		38
1700	32	0		32	67	0		67
1730	28	0		28	47	2		49
1800	40	0		40	29	0		29
TOTAL	508	4		512	528	26		554

29. 106 Street S of 105 Avenue

VEHICLE CROSSINGS BY TIME OF DAY

Time	ENTRIES					EXITS				
Ending	Auto	Truck	ETS	Other Bus	Total	Auto	Truck	ETS	Other Bus	Total
730	20	1		0	21	7	0		0	7
800	51	0		0	51	45	0		0	45
830	47	1		0	48	40	0		0	40
900	33	1		0	34	18	0		0	18
930	16	4		0	20	16	0		0	16
1000	24	1		0	25	19	0		0	19
1030	5	1		0	6	7	0		0	7
1100	12	3		0	15	18	0		0	18
1130	9	1		0	10	4	0		0	4
1200	15	0		0	15	25	0		0	25
1230	16	1		0	17	24	0		0	24
1300	19	1		0	20	20	0		0	20
1330	12	1		0	13	9	0		0	9
1400	26	0		0	26	26	0		0	26
1430	16	1		0	17	19	0		0	19
1500	8	1		0	9	15	0		0	15
1530	11	1		0	12	23	0		0	23
1600	17	0		0	17	30	0		0	30
1630	20	0		0	20	29	0		0	29
1700	17	0		0	17	30	0		0	30
1730	16	0		0	16	32	0		0	32
1800	33	0		0	33	34	0		0	34
TOTAL	443	19		0	462	490	0		0	490

PERSON CROSSINGS BY TIME OF DAY

Time	ENTRIES				EXITS			
Ending	Auto	Truck	ETS	Total	Auto	Truck	ETS	Total
730	27	1		28	8	0		8
800	86	0		86	51	0		51
830	77	1		78	44	0		44
900	46	1		47	18	0		18
930	26	5		31	18	0		18
1000	39	1		40	26	0		26
1030	8	1		9	8	0		8
1100	15	3		18	19	0		19
1130	10	1		11	4	0		4
1200	17	0		17	28	0		28
1230	27	1		28	33	0		33
1300	23	1		24	27	0		27
1330	15	1		16	12	0		12
1400	31	0		31	38	0		38
1430	18	1		19	26	0		26
1500	10	1		11	23	0		23
1530	14	1		15	33	0		33
1600	22	0		22	47	0		47
1630	25	0		25	40	0		40
1700	23	0		23	45	0		45
1730	19	0		19	44	0		44
1800	58	0		58	45	0		45
TOTAL	636	20		656	637	0		637

31. 103 Avenue E of 110 Street 30

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	42	1		0	43	29	0		0	29
800	65	0		0	65	43	2		0	45
830	54	1		0	55	51	0		0	51
900	69	0		0	69	46	1		0	47
930	44	0		0	44	40	0		0	40
1000	31	2		0	33	31	1		0	32
1030	30	0		0	30	29	0		0	29
1100	33	0		0	33	26	2		0	28
1130	23	0		0	23	32	0		0	32
1200	48	2		0	50	50	2		0	52
1230	63	1		0	64	81	2		0	83
1300	59	1		0	60	65	0		0	65
1330	47	2		0	49	57	1		0	58
1400	41	1		0	42	52	1		0	53
1430	39	0		0	39	51	0		0	51
1500	34	2		0	36	56	0		0	56
1530	42	0		0	42	52	0		0	52
1600	33	2		0	35	50	0		0	50
1630	49	0		0	49	56	0		0	56
1700	38	0		0	38	80	0		0	80
1730	52	0		0	52	86	0		0	86
1800	33	0		0	33	56	0		0	56
TOTAL	969	15		0	984	1,119	12		0	1,131

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	46	2		48	35	0		35
800	82	0		82	52	2		54
830	63	1		64	57	0		57
900	87	0		87	60	2		62
930	52	0		52	53	0		53
1000	37	4		41	40	1		41
1030	36	0		36	35	0		35
1100	42	0		42	30	4		34
1130	37	0		37	42	0		42
1200	61	3		64	73	2		75
1230	86	2		88	112	3		115
1300	80	1		81	81	0		81
1330	59	3		62	72	1		73
1400	51	1		52	57	1		58
1430	47	0		47	64	0		64
1500	40	3		43	77	0		77
1530	51	0		51	61	0		61
1600	43	4		47	73	0		73
1630	63	0		63	74	0		74
1700	43	0		43	99	0		99
1730	63	0		63	116	0		116
1800	45	0		45	72	0		72
TOTAL	1,214	24		1,238	1,435	16		1,451

Central Business District Cordon: 2004 Summary Report

TOTAL DOWNTOWN CORDON AREA

VEHICLE CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Other Bus	Total	EXITS Auto	Truck	ETS	Other Bus	Total
730	6,969	59	114	18	7,160	3,601	60	73	13	3,747
800	10,621	70	150	22	10,863	4,887	75	83	25	5,070
830	10,318	94	123	23	10,558	4,524	65	82	25	4,696
900	7,692	101	92	18	7,903	4,404	119	68	22	4,613
930	4,987	114	62	25	5,188	3,684	114	58	29	3,885
1000	4,676	104	54	22	4,856	3,661	83	52	24	3,820
1030	4,114	106	52	19	4,291	3,589	120	50	17	3,776
1100	4,321	116	50	18	4,505	3,965	121	51	23	4,160
1130	4,203	109	52	17	4,381	4,066	127	50	20	4,263
1200	4,768	101	51	32	4,952	4,785	106	53	21	4,965
1230	4,732	88	56	24	4,900	5,123	102	54	28	5,307
1300	5,253	78	52	40	5,423	4,673	92	53	15	4,833
1330	5,063	94	54	19	5,230	4,743	98	52	23	4,916
1400	5,112	102	51	23	5,288	4,989	107	56	19	5,171
1430	4,950	110	58	28	5,146	5,173	100	57	22	5,352
1500	4,696	104	58	29	4,887	5,274	112	66	27	5,479
1530	5,088	99	83	29	5,299	6,118	98	88	26	6,330
1600	4,870	61	85	19	5,035	7,054	74	103	19	7,250
1630	6,011	57	82	20	6,170	8,858	79	118	23	9,078
1700	5,806	53	79	17	5,955	10,442	51	144	14	10,651
1730	5,346	36	75	9	5,466	9,931	42	105	10	10,088
1800	5,113	37	59	10	5,219	7,281	40	75	13	7,409
TOTAL	124,709	1,893	1,592	481	128,675	120,825	1,985	1,591	458	124,859

PERSON CROSSINGS BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS	Total	EXITS Auto	Truck	ETS	Total
730	8,307	66	4,294	12,667	4,098	69	1,440	5,607
800	12,916	85	7,200	20,201	5,572	96	2,742	8,410
830	12,151	109	5,572	17,832	5,222	90	2,314	7,626
900	8,993	119	3,406	12,518	5,080	148	1,860	7,088
930	5,820	144	2,113	8,077	4,400	142	1,744	6,286
1000	5,716	134	1,675	7,525	4,386	102	1,112	5,600
1030	5,058	127	1,493	6,678	4,409	153	1,140	5,702
1100	5,258	146	1,525	6,929	4,849	160	1,433	6,442
1130	5,178	140	1,563	6,881	5,030	163	1,242	6,435
1200	5,910	127	1,649	7,686	5,919	132	1,297	7,348
1230	5,942	113	1,611	7,666	6,454	118	1,646	8,218
1300	6,601	113	1,604	8,318	5,887	107	1,654	7,648
1330	6,411	118	1,541	8,070	5,971	119	1,585	7,675
1400	6,370	131	1,549	8,050	6,397	141	1,692	8,230
1430	6,238	127	1,856	8,221	6,644	127	1,921	8,692
1500	5,890	129	1,510	7,529	6,684	135	2,216	9,035
1530	6,339	117	2,600	9,056	7,733	125	3,212	11,070
1600	6,124	79	2,626	8,829	8,788	85	3,773	12,646
1630	7,323	71	2,395	9,789	10,917	103	4,484	15,504
1700	7,040	62	2,488	9,590	13,043	70	6,252	19,365
1730	6,563	47	1,942	8,552	12,247	57	4,013	16,317
1800	6,462	42	1,279	7,783	8,879	45	2,179	11,103
TOTAL	152,609	2,346	53,491	208,446	148,608	2,487	50,951	202,046

Central Business District Cordon: 2004 Summary Report

TOTAL DOWNTOWN CORDON AREA

VEHICLE CROSSINGS BY CORDON STATION

	ENTRIES					EXITS				
Station	Auto	Truck	ETS	Other Bus	Total	Auto	Truck	ETS	Other Bus	Total
1	7,908	109	343	37	8,397	8,906	95	314	26	9,341
2	1,445	22		5	1,472					
3	6,736	57	157	22	6,972	7,133	115	44	25	7,317
4	12,672	189	12	57	12,930	8,556	228	2	42	8,828
6	13,784	130	35	44	13,993	126	1			127
7	985	4		2	991	735	3		4	742
8						17,779	85	167	49	18,080
9	1,442	23		15	1,480	1,574	22		7	1,603
10	3,527	41		17	3,585	3,781	35		17	3,833
11	11,180	154	199	20	11,553	10,614	170	202	26	11,012
12	13,077	178	87	43	13,385	14,015	274	85	42	14,416
13	13,389	292	81	64	13,826	9,669	261	78	47	10,055
14	5,084	117	3	19	5,223	6,098	133	1	22	6,254
15	7,654	148	233	67	8,102	9,335	186	257	80	9,858
16	6,317	100	98	12	6,527	5,615	71	98	20	5,804
17	5,688	116		16	5,820	5,595	156		21	5,772
18	434	5		1	440	669	15		1	685
19	3,856	75	143	14	4,088					
20						2,852	59	141	8	3,060
21	639	8		1	648	704	13		4	721
22	6,131	85	33	20	6,269	4,157	59	34	13	4,263
23			84		84			85		85
24			84		84			83		83
25						83				83
26	366	3		4	373	409	4		4	417
27	614				614	407				407
28	369	3		1	373	404	25		1	430
29	443	19			462	490				490
31	969	15			984	1,119	12			1,131
TOTAL	124,709	1,893	1,592	481	128,675	120,825	2,022	1,591	459	124,897

Central Business District Cordon: 2004 Summary Report

TOTAL DOWNTOWN CORDON AREA

PERSON CROSSINGS BY CORDON STATION

	ENTRIES					EXITS				
Station	Auto	Truck	ETS	Other Bus	Total	Auto	Truck	ETS	Other Bus	Total
1	8,975	121	8,879		17,975	11,119	119	7,373		18,611
2	1,741	25			1,766					
3	7,973	66	3,937		11,976	8,614	158	902		9,674
4	15,061	243	164		15,468	10,030	283	83		10,396
6	16,379	177	656		17,212	151	1			152
7	1,138	4			1,142	864	5			869
8						22,116	112	3,519		25,747
9	1,715	30			1,745	1,878	27			1,905
10	4,274	54			4,328	4,521	40			4,561
11	13,815	197	5,718		19,730	12,470	204	5,294		17,968
12	15,726	220	2,209		18,155	16,735	334	2,041		19,110
13	16,956	347	2,371		19,674	12,273	295	2,277		14,845
14	6,300	150	60		6,510	7,561	162	13		7,736
15	10,078	166	6,167		16,411	11,767	225	7,389		19,381
16	8,026	120	2,212		10,358	7,350	86	2,104		9,540
17	7,070	156			7,226	6,784	180			6,964
18	532	7			539	830	16			846
19	4,818	92	3,177		8,087					
20						3,711	79	2,995		6,785
21	812	10			822	909	17			926
22	7,702	109	374		8,185	5,257	97	252		5,606
23			9,965		9,965			8,958		8,958
24			7,602		7,602			7,751		7,751
25						91				91
26	493	4			497	517	5			522
27	667				667	460				460
28	508	4			512	528	26			554
29	636	20			656	637				637
31	1,214	24			1,238	1,435	16			1,451
TOTAL	152,609	2,346	53,491		208,446	148,608	2,487	50,951		202,046

Central Business District Cordon: 2004 Summary Report

A.M. PEAK HOUR (7:30 - 8:30)

VEHICLE CROSSINGS BY CORDON STATION

	------- ENTRIES --------					--------- EXITS ----------				
Station	Auto	Truck	ETS	Other Bus	Total	Auto	Truck	ETS	Other Bus	Total
1	1,603	9	77	1	1,690	556	9	33	3	601
2	407	4		1	412					
3	1,687	2	30	3	1,722	470	6	2	4	482
4	2,647	26	6	7	2,686	666	20		7	693
6	2,118	3	9	7	2,137	1				1
7	343	2			345	30				30
8						1,563	3	15	5	1,586
9	198	6		1	205	173	2		2	177
10	587	5		2	594	312	2		4	318
11	1,614	14	27	1	1,656	711	10	20	5	746
12	1,903	13	12	2	1,930	729	22	7		758
13	1,585	20	15	5	1,625	961	18	11	5	995
14	878	10	2	1	891	727	12		2	741
15	1,104	13	28	9	1,154	810	7	30	6	853
16	1,075	8	26		1,109	308	1	6	2	317
17	785	13			798	427	12		2	441
18	12				12	97	2			99
19	849	7	17	3	876					
20						199	7	17	2	225
21	25	1			26	78	2			80
22	1,063	6	4	2	1,075	328	4	4	1	337
23			10		10			10		10
24			10		10			10		10
25										
26	46				46	37	1			38
27	123				123	6				6
28	70				70	43	2			45
29	98	1			99	85				85
31	119	1			120	94	2			96
TOTAL	20,939	164	273	45	21,421	9,411	144	165	50	9,770

Central Business District Cordon: 2004 Summary Report

A.M. PEAK HOUR (7:30 - 8:30)

PERSON CROSSINGS BY CORDON STATION

	------- ENTRIES --------				--------- EXITS ----------			
Station	Auto	Truck	ETS	Total	Auto	Truck	ETS	Total
1	1,781	9	2,809	4,599	638	11	583	1,232
2	507	4		511				
3	2,037	3	1,230	3,270	532	7	19	558
4	3,156	30	106	3,292	786	27		813
6	2,422	4	266	2,692	1			1
7	398	2		400	33			33
8					1,878	5	248	2,131
9	233	11		244	190	3		193
10	700	5		705	345	2		347
11	1,953	14	1,199	3,166	782	16	454	1,252
12	2,272	17	529	2,818	795	29	150	974
13	1,908	26	423	2,357	1,127	21	367	1,515
14	1,068	12	33	1,113	841	17		858
15	1,345	16	1,023	2,384	969	8	1,176	2,153
16	1,304	8	748	2,060	340	1	76	417
17	934	15		949	473	14		487
18	15			15	104	3		107
19	1,062	8	514	1,584				
20					220	9	400	629
21	30	1		31	90	3		93
22	1,318	7	84	1,409	351	5	10	366
23			3,309	3,309			189	189
24			499	499			1,384	1,384
25								
26	75			75	38	1		39
27	136			136	9			9
28	105			105	48	2		50
29	163	1		164	95			95
31	145	1		146	109	2		111
TOTAL	25,067	194	12,772	38,033	10,794	186	5,056	16,036

Central Business District Cordon: 2004 Summary Report

P.M. PEAK HOUR (16:30 - 17:30)

VEHICLE CROSSINGS BY CORDON STATION

	------- ENTRIES -------					--------- EXITS ----------				
Station	Auto	Truck	ETS	Other Bus	Total	Auto	Truck	ETS	Other Bus	Total
1	644	6	34	3	687	2,014	9	57	1	2,081
2	106	1		1	108					
3	458	2	16	2	478	1,415	8	13	1	1,437
4	1,156	13			1,169	1,789	10	2	4	1,805
6	1,204	8	2	2	1,216	51				51
7	52				52	243				243
8						2,287	1	32	4	2,324
9	205				205	245	1			246
10	342	3		3	348	855	3		4	862
11	1,041	5	19	3	1,068	1,743	5	27	2	1,777
12	1,153	12	6	2	1,173	2,196	10	12	1	2,219
13	1,197	15	9	2	1,223	1,568	7	10		1,585
14	541	3			544	957	7	1	2	967
15	639	6	25	6	676	1,359	10	35	3	1,407
16	501	8	6		515	972	5	20	1	998
17	646	1			647	838	11		1	850
18	56	1			57	25	1			26
19	355	2	14	2	373					
20						556		16		572
21	71				71	29	1			30
22	516	3	4		523	751	4	4		759
23			9		9			10		10
24			10		10			10		10
25						54				54
26	35				35	50				50
27	67				67	88				88
28	44				44	60	1			61
29	33				33	62				62
31	90				90	166				166
TOTAL	11,152	89	154	26	11,421	20,373	94	249	24	20,740

Central Business District Cordon: 2004 Summary Report

P.M. PEAK HOUR (16:30 - 17:30)

PERSON CROSSINGS BY CORDON STATION

	------- ENTRIES --------				--------- EXITS ----------			
Station	Auto	Truck	ETS	Total	Auto	Truck	ETS	Total
1	695	6	769	1,470	2,499	11	1,809	4,319
2	115	1		116				
3	555	2	290	847	1,748	12	394	2,154
4	1,335	13		1,348	2,122	16	83	2,221
6	1,439	11	22	1,472	64			64
7	61			61	297			297
8					2,839	1	1,030	3,870
9	241			241	306	2		308
10	421	4		425	1,021	3		1,024
11	1,269	7	508	1,784	2,199	6	989	3,194
12	1,458	16	171	1,645	2,697	12	375	3,084
13	1,567	22	218	1,807	1,871	11	358	2,240
14	641	3		644	1,227	7	13	1,247
15	881	8	746	1,635	1,693	11	1,173	2,877
16	617	8	63	688	1,236	10	577	1,823
17	794	1		795	1,034	11		1,045
18	66	1		67	35	1		36
19	413	2	193	608				
20					734		482	1,216
21	81			81	39	2		41
22	626	4	26	656	993	9	59	1,061
23			320	320			2,300	2,300
24			1,104	1,104			623	623
25					57			57
26	47			47	66			66
27	73			73	95			95
28	60			60	114	2		116
29	42			42	89			89
31	106			106	215			215
TOTAL	13,603	109	4,430	18,142	25,290	127	10,265	35,682

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VEHICLE OCCUPANCY RATES BY TIME OF DAY

Time Ending	ENTRIES Auto	Truck	ETS Bus	ETS LRT	EXITS Auto	Truck	ETS Bus	ETS LRT
730	1.19	1.12	30	121.8	1.14	1.15	16	44.4
800	1.22	1.21	37	202.0	1.14	1.28	23	106.5
830	1.18	1.16	33	178.8	1.15	1.38	25	50.8
900	1.17	1.18	28	115.1	1.15	1.24	21	64.3
930	1.17	1.26	24	124.3	1.19	1.25	15	140.0
1000	1.22	1.29	25	78.0	1.20	1.23	16	62.3
1030	1.23	1.20	22	80.0	1.23	1.28	17	63.2
1100	1.22	1.26	23	83.5	1.22	1.32	17	114.2
1130	1.23	1.28	23	84.5	1.24	1.28	20	63.2
1200	1.24	1.26	21	115.8	1.24	1.25	20	61.3
1230	1.26	1.28	22	88.7	1.26	1.16	21	103.3
1300	1.26	1.45	21	109.7	1.26	1.16	23	96.5
1330	1.27	1.26	19	101.8	1.26	1.21	21	100.5
1400	1.25	1.28	23	88.3	1.28	1.32	22	96.0
1430	1.26	1.15	21	131.7	1.28	1.27	24	114.5
1500	1.25	1.24	20	82.2	1.27	1.21	26	108.0
1530	1.25	1.18	22	95.8	1.26	1.28	28	111.7
1600	1.26	1.30	25	73.7	1.25	1.15	29	108.4
1630	1.22	1.25	22	83.1	1.23	1.30	28	144.2
1700	1.21	1.17	24	83.3	1.25	1.37	34	168.6
1730	1.23	1.31	20	65.7	1.23	1.36	29	123.7
1800	1.26	1.14	16	61.3	1.22	1.13	21	119.5
AVG.	1.22	1.24	25	104.6	1.23	1.25	24	99.5